CH2M HILL
1748 West Truck Road
Otis ANGB, MA 02542

29 March 2013

Mr. Jonathan S. Davis
Remediation Program Manager
HQ AFCEC/MMR
322 E. Inner Road
Otis ANG Base, MA 02542-5028

SUBJECT: AFCEC 4P08 FA8903-08-D-8769; Task Order 0337
MMR SPEIM/LTM/O&M Program
CDRL #A001j
Southwest Plumes 2012 Summary Letter Report

Dear Mr. Davis:

The purpose of this Summary Letter Report (SLR) is to document the results of sampling activities conducted at the Southwest Plumes under the System Performance and Ecological Impact Monitoring (SPEIM) program during the 2012 calendar year. This deliverable contains no detailed assessment or evaluation of the results, but is a means of documenting all the actions completed under the Southwest Plumes SPEIM program. The data collected under the SPEIM program are continually assessed and the results of these assessments are presented initially during the Technical Update Meetings and then through Technical Memoranda or Project Note deliverables, if warranted, based on the results of the data evaluation or to address particular plume issues.

In October 2012, the Air Force Center for Engineering and the Environment (AFCEE) adopted a new organizational name, the Air Force Civil Engineer Center (AFCEC). Therefore, the AFCEE and AFCEC acronyms refer to the same entity, but are used in this document in relation to the date of a specific topic or document.

This letter report includes a summary of the activities performed and the data collected for the Southwest Plumes SPEIM program between 01 January 2012 and 04 January 2013. The Southwest Plumes area includes the following groundwater plumes: Chemical Spill-4 (CS-4), Chemical Spill-20 (CS-20), Chemical Spill-21 (CS-21), and Fuel Spill-29 (FS-29) (**Figure 1**). The Southwest Plumes contaminants of concern (COCs) and their respective groundwater standards are presented in **Table 1**. The individual Southwest Plumes are defined by the presence of their respective COCs in excess of the applicable Maximum Contaminant Levels (MCLs), Massachusetts MCLs (MMCLs), and/or Massachusetts Contingency Plan (MCP) Method 1 Groundwater-1 (GW-1) standards.

The Southwest Plumes remedial system was designed to collectively remediate the CS-4, CS-20, CS-21, and FS-29 groundwater plumes. The contaminated groundwater is captured

by extraction wells in each plume and treated in a centrally located treatment plant (the Hunter Avenue Treatment Facility [HATF]). The treated water is returned to the aquifer through reinjection wells, an infiltration trench, and an infiltration gallery (**Figure 1**).

Phase I of the Southwest Plumes system startup occurred with the CS-4 remedial system startup on 28 November 2005 and the CS-20 remedial system startup on 11 January 2006. Phase II of system startup occurred on 11 September 2006 with the startup of the CS-21 and FS-29 remedial components.

As of December 2012, the Southwest Plumes remedial system was operating at a flow rate of 1,619 gallons per minute (gpm) (170 gpm for CS-4, 749 gpm for CS-20, 700 gpm for CS-21). This operational condition is referred to as 2012 Scenario 01. The FS-29 remedial system was shut down in September 2010 because it was no longer contributing to the cleanup of the FS-29 plume. The following Southwest Plumes extraction wells have been turned off as a result of remedial system optimization efforts (shutdown date in parentheses): FS-29 extraction well 80EW0002 (16 April 2009), CS-4 extraction well 02EW0016 (09 December 2009), CS-21 extraction well 82EW0004 (23 June 2010), and FS-29 extraction well 80EW0001 (20 September 2010).

The flow from the CS-4 and CS-20 extraction wells is combined, enters the HATF through a common influent line, and is treated through its own series of carbon vessels (**Figure 2**). Likewise, the flow from the CS-21 (and FS-29 when operational) extraction wells enters the plant through a common influent line and is treated through dedicated carbon trains. The treated water from the CS-4/CS-20 trains and the CS-21 trains exits the HATF in a combined effluent line and is returned to the aquifer through six reinjection wells, an infiltration gallery, and an infiltration trench. The following Southwest Plumes reinjection wells have been turned off as a result of remedial system optimization efforts (shutdown date in parentheses): FS-29 reinjection well 80RIW0001 and CS-21 reinjection well 82RIW0003 (30 June 2010), and FS-29 reinjection well 80RIW0002 (20 September 2010).

In addition to the Southwest Plumes, the HATF houses a treatment train for groundwater extracted from the Chemical Spill-23 (CS-23) plume and the southern portion of the Landfill-1 (LF-1) plume (**Figures 1** and **2**). The LF-1/CS-23 groundwater is treated at the HATF separately from the Southwest Plumes groundwater and exits the treatment plant through a separate effluent line (i.e., not combined with effluent from the Southwest Plumes). All LF-1 and CS-23 data collected at the HATF in 2012 will be reported in the LF-1/CS-23 2012 SLR, which is scheduled for submittal in March 2013.

AFCEE installed the Southwest Plumes remedial system under two Final Record of Decision (ROD) documents (AFCEE 2000a and 2000b), as described in the Final Wellfield Design Report (AFCEE 2004). However, a Final Explanation of Significant Differences (ESD) was submitted in September 2008 to document changes to the selected remedies for CS-4, CS-20, and FS-29 (AFCEE 2008a). The primary difference between the original cleanup strategy identified in the RODs and the implemented strategy is the extent of plume capture by the remedial systems. The RODs presented a remedial strategy that would achieve full capture of each of the Southwest Plumes. However, the final design for the CS-4, CS-20, and FS-29

systems could not achieve full capture due to access and constructability issues and allows the low concentration groundwater contamination in the downgradient leading edges of these plumes to reach cleanup levels through natural attenuation instead of through active remediation. The ESD also documents the land use control (LUC) process at the Southwest Plumes, and updates the three-step process for groundwater cleanup at the Southwest Plumes (AFCEE 2008a). A second ESD was submitted in September 2011 that clarified the inclusion of monitored natural attenuation as a component of the selected remedy, slightly modified the phrasing of the remedial action objectives, and updated the steps to achieve site closure (i.e., the three step process) (AFCEE 2011b).

SOUTHWEST PLUMES SPEIM ACTIVITIES

The SPEIM program was developed to monitor plume changes and to ensure the effective operation of the AFCEE groundwater remediation systems at the Massachusetts Military Reservation (MMR). These objectives are met through monitoring of selected media (i.e., groundwater, surface water) within and outside the plume boundaries, treatment plant monitoring, and groundwater flow and transport modeling. Activities completed for the Southwest Plumes SPEIM program during 2012 include the following:

Standard SPEIM Sampling Activities:

- Triennial (February through April 2012) and semiannual groundwater monitoring (September 2012)
- Irrigation well sampling (April 2012)
- Seasonal recreational beach area surface water sampling (April 2012)
- Annual public water supply sentry well sampling (March 2012)
- Monthly treatment plant sampling (January through December 2012)
- Quarterly extraction well sampling (March, June, September/October, and December 2012/January 2013)
- Recording of daily average treatment system flow rates (January through December 2012)
- LUC Program private well sampling

The groundwater and surface water locations sampled for the Southwest Plumes SPEIM program in 2012 are presented in **Figure 3**. Well construction and surface water sample location information are included in **Table 2**. The current Southwest Plumes SPEIM network is presented in the *Comprehensive Long Term Monitoring Plan*, which is available from AFCEC.

Groundwater and surface water analytical results for COCs only are presented in **Table 3** for the CS-4 plume, in **Table 4** for the CS-20 plume, in **Table 5** for the CS-21 plume, and in **Table 6** for the FS-29 plume. A map showing the distribution of COC detections in groundwater is included as **Figure 4**. A comparison of compounds detected in groundwater and treatment plant samples to applicable standards is included in **Attachment A**.

Data Summary Report:

The data summary report for the analytical data reported in this SLR is included in **Attachment B**.

Presentations:

Presentations completed for the Southwest Plumes are listed in **Table 7**.

Project Note Submittals:

The project notes related to activities conducted for the Southwest Plumes under the SPEIM program in 2012 are included in **Attachment C**.

Report Submittals:

- *Fuel Spill-28 and Southwest Plumes 2011 Private Well Verification and Well Determination Project Note* in February 2012 (AFCEE 2012h).
- *Southwest Plumes 2011 Summary Letter Report* submitted in March 2012 (AFCEE 2012g).
- *CS-4 Groundwater Plume Conceptual Site Model* in March 2012 (AFCEE 2012f).
- *Data Transmittal of 2012 Annual Monitoring Analytical Results for Crooked Pond Public Water Supply Well Sentry Wells* (May 2012).
- *FS-29 Groundwater Plume Conceptual Site Model* in June 2012 (AFCEE 2012e).
- *CS-21 Groundwater Plume Conceptual Site Model* in June 2012 (AFCEE 2012d).
- *CS-20 Groundwater Plume Conceptual Site Model* in June 2012 (AFCEE 2012c).
- *CS-21 2011 Remedial System Optimization Evaluation* in June 2012 (AFCEE 2012b).
- *Final 2011 MMR Vapor Intrusion Evaluation Technical Memorandum* submitted in August 2012 (AFCEE 2012a).
- *CS-4 Groundwater Plume Conceptual Site Model* in December 2012 (AFCEC 2012a).

Major Events and Optimizations:

The Southwest Plumes SPEIM network was optimized in 2012 following an evaluation of the results from the spring 2012 triennial monitoring event (AFCEC 2012b). The following changes were approved by the regulatory agencies: sixteen monitoring wells were dropped from the network; the frequency of monitoring was increased at three monitoring wells and decreased at twenty-six monitoring wells. The Southwest Plumes LUC and plume boundaries were updated based on results of the 2012 triennial monitoring event (AFCEC 2012b).

The results of the CS-21 remedial system optimization were presented to the regulatory agencies at the 17 November 2011 Technical Update Meeting with the recommendation to reduce flows at extraction wells 82EW0001, 82EW0002, and 82EW0003. At the follow-up Technical Update Meeting on 26 January 2012 and in follow-on e-mail correspondence, the regulatory agencies provided their approval to reduce flow rates at 82EW0002 and 82EW0003, but not at 82EW0001. Flow rates were reduced from 274 gpm to 100 gpm at both 82EW0002 and 82EW0003 on 03 February 2012 (2012 Scenario 01). AFCEE agreed to continue to operate 82EW0001 at 500 gpm and reassess its flow rate in the future (AFCEE 2012b).

The CS-20 plume shell was updated and an optimization modeling assessment was performed for the CS-20 remedial system in Winter 2012/Spring 2013. The results of the optimization evaluation were presented at the 21 March 2013 Technical Update Meeting with the recommendation to reduce flow rates at extraction wells 81EW0001 and 81EW0002. The results of the CS-20 remedial system optimization will be discussed further at a future Technical Update Meeting and documented in a project note deliverable. That project note will be included in the Southwest Plumes 2013 SLR, scheduled for submittal in March 2014.

SOUTHWEST PLUMES REMEDIAL STATUS UPDATE

Analytical results from the HATF are presented in **Table 8**. Average weekly flow rates for the Southwest Plumes remedial system are presented in **Table 9** (CS-4 and CS-20) and **Table 10** (CS-21). Treatment system operational downtimes or deviations (for events lasting two hours or longer) for the 2012 calendar year are summarized in **Table 11**. Mass removal calculations for the Southwest Plumes are included in **Table 12**. The Southwest Plumes portion of HATF treated approximately 705 million gallons of contaminated groundwater, and removed approximately 25 pounds (lbs) of tetrachloroethene (PCE), trichloroethene (TCE), carbon tetrachloride (CCl_4), ethylene dibromide (EDB), and 1,1,2,2-tetrachloroethane (1,1,2,2-TeCA) between January and December 2012. Since system startup, the Southwest Plumes portion of HATF has removed approximately 296 lbs of COCs through the treatment of approximately 8 billion gallons of groundwater. Mass removal calculations for individual extraction wells are included in **Table 13** for the CS-4 plume, in **Table 14** for the CS-20 plume, and in **Table 15** for the CS-21 plume.

The operation of the Southwest Plumes remedial system used approximately 866 megawatt hours of electricity during 2012. Power plant air emissions associated with this power generation for 2012 and since system startup in November 2005 are presented in **Table 16**. Green energy purchases and power production from AFCEC's wind turbines are incorporated into these air emissions data. The status of the remedial activities at each of the Southwest Plumes is summarized below.

CS-4

The most recent plume shell for CS-4 included data collected through February 2010 (AFCEE 2011a). The 2010 CS-4 plume shell is estimated to contain approximately 130 million gallons of groundwater contaminated with PCE at concentrations above the MCL of 5 micrograms per liter (µg/L). The 2010 CS-4 plume shell is estimated to contain approximately 13 lbs of dissolved-phase PCE. Plume shells for the other CS-4 COCs (TCE; 1,1,2,2-TeCA; and EDB) were not created because detections of those COCs above their respective groundwater standards are sporadic and are co-located with the PCE contamination.

Using the 2010 CS-4 PCE plume shell and assuming the system will operate continuously under 2010 Scenario 01 flow rates, the most recent transport model simulations predict that the two remaining operational CS-4 extraction wells (02EW0014 and 02EW0015) can be shut down by approximately 2016. After 2016 PCE is predicted to remain in low conductivity units in the upgradient portion of the CS-4 plume, but concentrations are expected (based on transport simulations) to decrease below the MCL through natural attenuation by approximately 2030 (AFCEE 2011a).

The CS-4 extraction wells pumped approximately 81 million gallons of contaminated groundwater and removed approximately 3 lbs of PCE between January and December 2012 (**Table 13**). The CS-4 extraction wells have removed approximately 33 lbs of COCs through the treatment of approximately 1.3 billion gallons of contaminated groundwater since system startup in November 2005.

CS-20

The most recent plume shell for CS-20 included data collected through February 2006 (AFCEE 2008b). The 2006 CS-20 plume shell is estimated to contain approximately 1.2 billion gallons of groundwater contaminated with PCE at concentrations above the MCL of 5 µg/L. The CS-20 PCE plume shell was created as a composite with TCE and incorporates some isolated TCE detections that were not co-located with PCE. CS-20 TCE detections are sporadic and at generally low concentrations. The 2006 CS-20 plume shell is estimated to contain approximately 102 lbs of combined dissolved-phase PCE and TCE. As noted in **Table 1**, PCE is the only COC for CS-20.

Using the most recent CS-20 plume shell and assuming the system will operate continuously under 2008 Scenario 01 flow rates, the most recent transport model simulations suggest that all of the CS-20 extraction wells can be shut down by approximately 2017. PCE concentrations in the remainder of the CS-20 plume are predicted to decrease below the MCL through natural attenuation by approximately 2023 (AFCEE 2008b).

The CS-20 extraction wells pumped approximately 286 million gallons of contaminated groundwater and removed approximately 8 lbs of PCE between January and December 2012 (**Table 14**). The CS-20 extraction wells have removed approximately 89 lbs of PCE through the treatment of approximately 2.4 billion gallons of contaminated groundwater since system startup in January 2006.

CS-21

The most recent plume shell for CS-21 included data collected through May 2010 (AFCEE 2012b). The 2010 CS-21 plume shell is estimated to contain approximately 1.5 billion gallons of groundwater contaminated with TCE at concentrations above the MCL of 5 µg/L, and approximately 132 lbs of dissolved-phase TCE. Using the most recent CS-21 TCE plume shell and assuming the system will operate continuously under 2012 Scenario 01 flow rates (implemented on 03 February 2012, see above), the most recent transport model simulations predict that all of the CS-21 extraction wells can be turned off by approximately 2024. TCE concentrations in the CS-21 plume are expected to decline below the MCL through natural attenuation by approximately 2026.

The CS-21 extraction wells pumped approximately 338 million gallons of contaminated groundwater and removed approximately 17 lbs of TCE between January and December 2012 (**Table 15**). The CS-21 extraction wells have removed approximately 155 lbs of TCE through the treatment of approximately 3.6 billion gallons of contaminated groundwater since system startup in September 2006.

FS-29

The most recent plume shell for FS-29 included data collected through September 2006 (AFCEE 2008b). The 2006 FS-29 plume shell was estimated to contain approximately 875 million gallons of groundwater contaminated with EDB and CCl_4 at concentrations

above the applicable groundwater standards. Using the most recent FS-29 EDB plume shell and assuming the system will operate continuously under 2009 Scenario 01 flow rates, the most recent transport simulations predicted that FS-29 extraction well 80EW0001 could be shut down by approximately 2018, and that EDB concentrations in the upgradient portion of the FS-29 plume would drop below the MMCL by approximately 2028 (AFCEE 2010).

However, EDB concentrations in the FS-29 plume have decreased faster than the model predictions. There were only three detections of EDB above the MMCL in 2009 and 2010, and EDB concentrations have been below the MMCL since August 2010 in all FS-29 monitoring wells sampled. In addition, EDB was not detected in the influent of the FS-29 extraction wells after March 2010, leading to the shutdown of both extraction wells (80EW0002 was shut down on 16 April 2009, and 80EW0001 was shut down on 20 September 2010) (AFCEE 2010). CCl_4 is detected sporadically at concentrations near the MCL of 5 µg/L, and is generally collocated with the EDB contamination. The FS-29 extraction wells removed approximately 9 lbs of COCs from system startup in September 2006 through system shutdown in September 2010. SPEIM data will continue to be collected and evaluated at FS-29 to provide the data necessary to proceed with the 3 step-process to achieve site closure (AFCEE 2000a, 2011b).

Through the SPEIM program, the Conceptual Site Model for each of the Southwest Plumes is routinely updated and the remedial system operation is continuously evaluated and optimized to reduce cleanup times, therefore the timeframes presented in the preceding section will most likely be decreased in future scenarios.

SOUTHWEST PLUMES SPEIM ACTIVITIES PLANNED FOR 2013

Activities currently planned for the Southwest Plumes SPEIM program for 2013 include the following:

- Annual groundwater sampling (March 2013)
- Synoptic water level measurements (as needed)
- Seasonal recreational beach area surface water sampling (April 2013)
- Annual public water supply sentry well sampling (March 2013)
- Monthly treatment plant sampling (January through December 2013)
- Quarterly extraction well sampling (March, June, September, December 2013)
- Recording of daily average treatment system flow rates (January through December 2013)
- Southwest Plumes SPEIM data presentation for annual groundwater sampling (Summer 2013)
- Present and document results of the CS-20 remedial system optimization assessment (Spring 2013)
- Update and submit the *CS-20 Groundwater Plume Conceptual Site Model* deliverable (Spring 2013)
- Update and submit the *CS-21 Groundwater Plume Conceptual Site Model* deliverable (Spring 2013)
- Update and submit the *FS-29 Groundwater Plume Conceptual Site Model* deliverable (Spring 2013)
- LUC Program private well sampling, including irrigation wells (as needed)

Mr. Jon Davis is the Air Force point of contact for this project and can be reached at (508) 968-4670, extension 4952.

Sincerely,

CH2M HILL



Nigel Tindall, P.G.
Project Manager

Attachments:

Figure 1	Southwest Plumes Remedial System and Hunter Avenue Treatment Facility
Figure 2	Hunter Avenue Treatment Facility Process Flow Diagram
Figure 3	Southwest Plumes Chemical Monitoring Locations
Figure 4	Southwest Plumes 2012 COC Detections in Groundwater
Table 1	Southwest Plumes Contaminants of Concern and Groundwater Standards
Table 2	Southwest Plumes Well Construction and Surface Water Sampling Information
Table 3	CS-4 Groundwater Monitoring Results
Table 4	CS-20 Groundwater and Surface Water Monitoring Results
Table 5	CS-21 Groundwater Monitoring Results
Table 6	FS-29 Groundwater Monitoring Results
Table 7	Southwest Plumes Meeting Presentations
Table 8	Hunter Avenue Treatment Facility Sampling Results
Table 9	CS-4 and CS-20 Flow Rates
Table 10	CS-21 Flow Rates
Table 11	Hunter Avenue Treatment Facility Downtime Summary
Table 12	Hunter Avenue Treatment Facility Mass Removal Summary
Table 13	CS-4 Extraction Well Mass Removal Summary
Table 14	CS-20 Extraction Well Mass Removal Summary
Table 15	CS-21 Extraction Well Mass Removal Summary
Table 16	Southwest Plumes Remedial System Electrical Consumption and Associated Air Emissions
Attachment A	Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Attachment B	Southwest Plumes 2012 SLR Data Summary Report
Attachment C	Southwest Plumes Project Notes

* c: Rose Forbes, AFCEC/MMR	Jason Zimmer, DFW	Patrick S. O'Neale, Tata and Howard
Bob Lim, EPA	Denis LeBlanc, USGS	MaryBeth Wiser, Town of Falmouth
Leonard Pinaud, MassDEP	Kelly Cardoza, Avalon Consulting	CH2M HILL Doc. Ctl & Distribution

* Delivery via email.

REFERENCES

AFCEC. 2012a (December). *Chemical Spill-4 Groundwater Plume Conceptual Site Model.* 437075-SPEIM-CS4-CSM-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012b (December). Project Note: *Southwest Plumes 2012 Triennial SPEIM Data Presentation.* 437075-SPEIM-SWP-PRJNOT-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

AFCEE. 2012a (August). *Final 2011 MMR Vapor Intrusion Evaluation Technical Memorandum.* 420005-SPEIM-MULTIPLE-TECHMEM-002. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012b (June). Project Note: *CS-21 2011 Remedial System Optimization Evaluation*. 420005-SPEIM-SWP-PRJNOT-003. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012c (June). *Chemical Spill-20 Groundwater Plume Conceptual Site Model.* 420005-SPEIM-CS20-CSM-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012d (June). *Chemical Spill-21 Groundwater Plume Conceptual Site Model.* 420005-SPEIM-CS21-CSM-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012e (June). *Fuel Spill-29 Groundwater Plume Conceptual Site Model.* 420005-SPEIM-FS29-CSM-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012f (March). *Chemical Spill-4 Groundwater Plume Conceptual Site Model.* 420005-SPEIM-CS4-CSM-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012g (March). *Southwest Plumes 2011 Summary Letter Report.* 420005-SPEIM-SWP-SLR-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2012h (February). *Fuel Spill-28 and Southwest Plumes 2011 Private Well Verification and Well Determination* Project Note. 420005-LUC-MULTIPLE-PRJNOT-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2011a (September). *Final Chemical Spill-4 2010 Remedial System Optimization Technical Memorandum*. 404929-SPEIM-CS4-TECHMEM-001. Prepared by CH2M HILL for AFCEE/MMR Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2011b (September). *Final Explanation of Significant Differences for the Installation Restoration Program Groundwater Plumes at the Massachusetts Military Reservation.* 404929-SPEIM-MULTIPLE-RPT-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2010 (October). Project Note: *FS-29 Extraction Well 80EW0001 Interim Shut Down*. 404929-SPEIM-SWP-PRJNOT-002. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2008a (September). *Final Explanation of Significant Differences for Chemical Spill-4, Chemical Spill-20, Chemical Spill-21, Fuel Spill-13, Fuel Spill-28, and Fuel Spill-29 Groundwater Plumes.* A4P-J23-35BC24VC-M26-0006. Prepared by Jacobs Engineering Group Inc. for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2008b (May). *Final Chemical Spill-4, Chemical Spill-20, Chemical Spill-21 and Fuel Spill-29 Baseline System Performance and Ecological Impact Monitoring Report.* A4P-J23-35BC24VC-M22-0003. Prepared by Jacobs Engineering Group Inc. for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

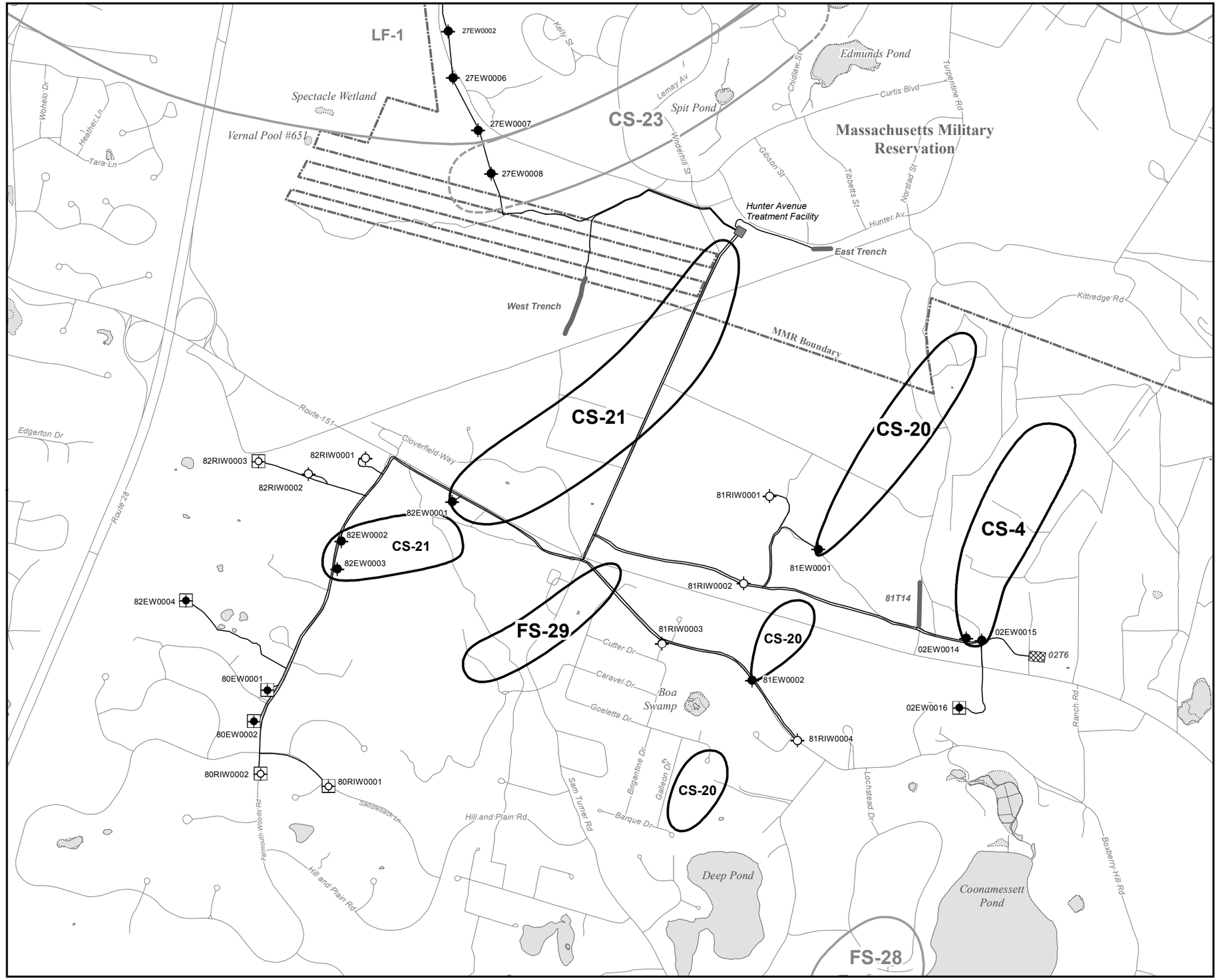
_____. 2004 (August). *Final Chemical Spill-4, Chemical Spill-20, Chemical Spill-21 and Fuel Spill-29 Wellfield Design Report.* A3P-J23-35Z00102-M23-0004. Prepared by Jacobs Engineering Group Inc. for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2000a (October). *Final Record of Decision for the Fuel Spill-28 and Fuel Spill-29 Plumes.* AFC-J23-35Q86101-M26-0009. Prepared by Jacobs Engineering Group Inc. for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

_____. 2000b (February). *Final Record of Decision for the CS-4, CS-20, CS-21 and FS-13 Plumes.* AFC-J23-35Q86101-M26-0004. Prepared by Jacobs Engineering Group Inc. for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

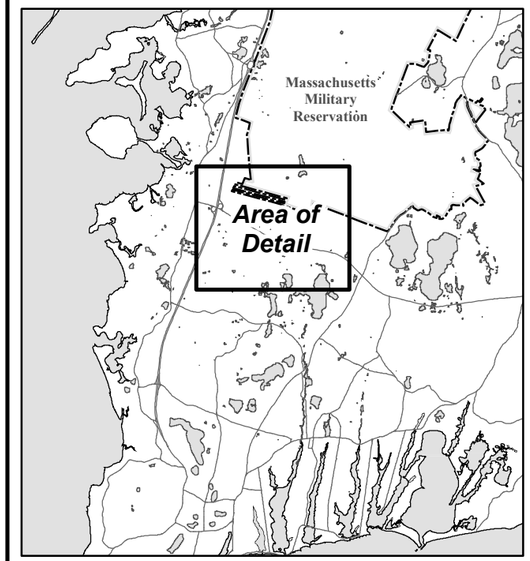
FIGURES

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Legend

- Extraction Well
- Reinjection Well
- Extraction Well (Off)
- Reinjection Well (Off)
- Infiltration Gallery
- Treatment Plant
- Infiltration Trench
- Massachusetts Military Reservation Boundary
- Southwest Plume Boundary
- Other AFCEE Plume Boundary (Dashed Where Inferred)
- Treatment System Piping



0 675 1,350

Feet

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 1

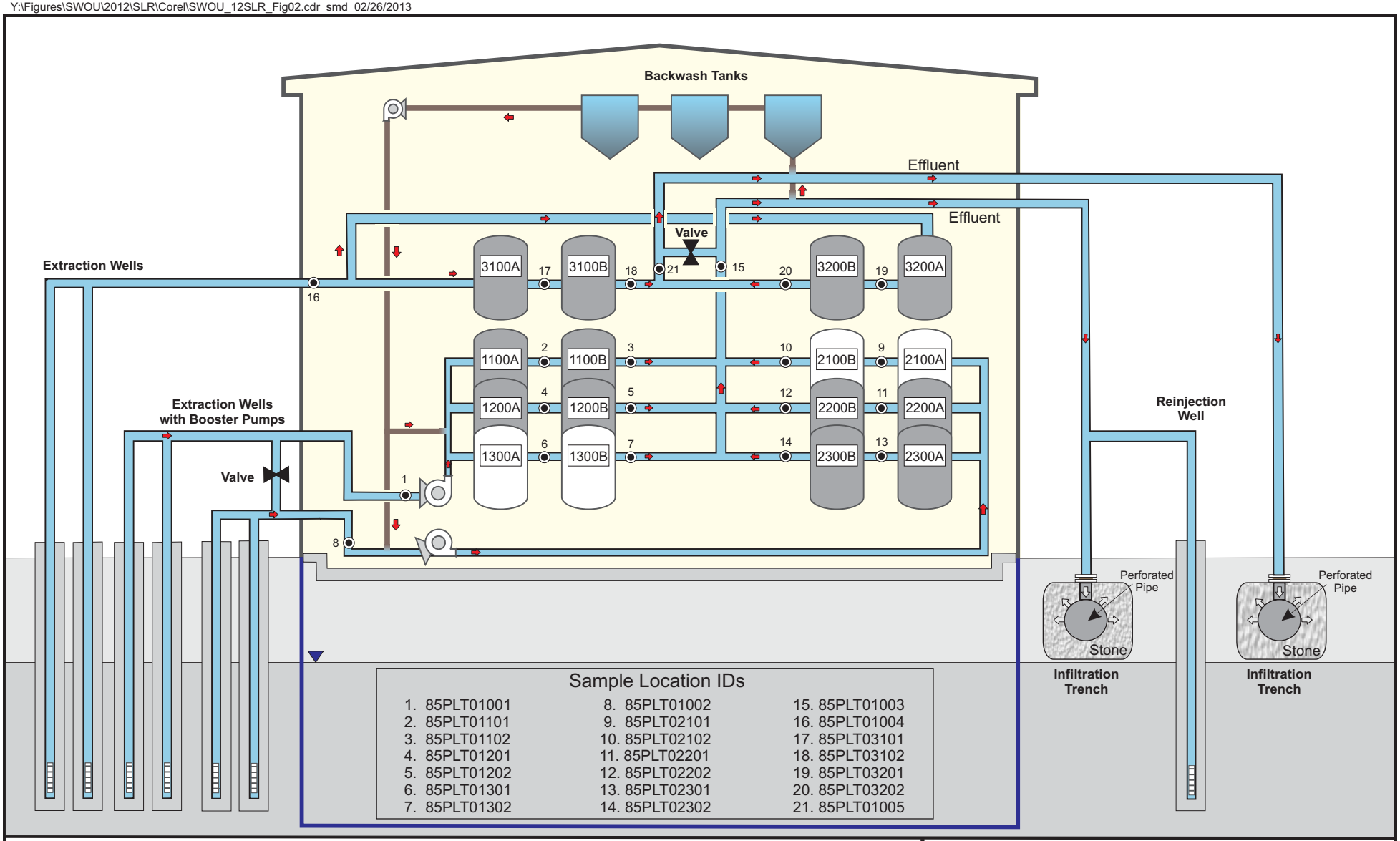
SOUTHWEST PLUMES REMEDIAL SYSTEM AND HUNTER AVENUE TREATMENT FACILITY

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LF-1 CS-23 FS-29 (off) CS-21 CS-4 CS-20

GAC Vessel, Not In Use

GAC Vessel, In Use

Legend

Sampling Port

Water Table

Pump

Valve

GAC Granular Activated Carbon

NOTES:

(1) Lead and lag GAC vessel positions are interchangeable.
(2) "As-builts" should be consulted for detailed plant information.
(3) Vessels 1300A,B and 2100A,B are currently not in use.
(4) Booster pumps are currently not in use.

FIGURE 2

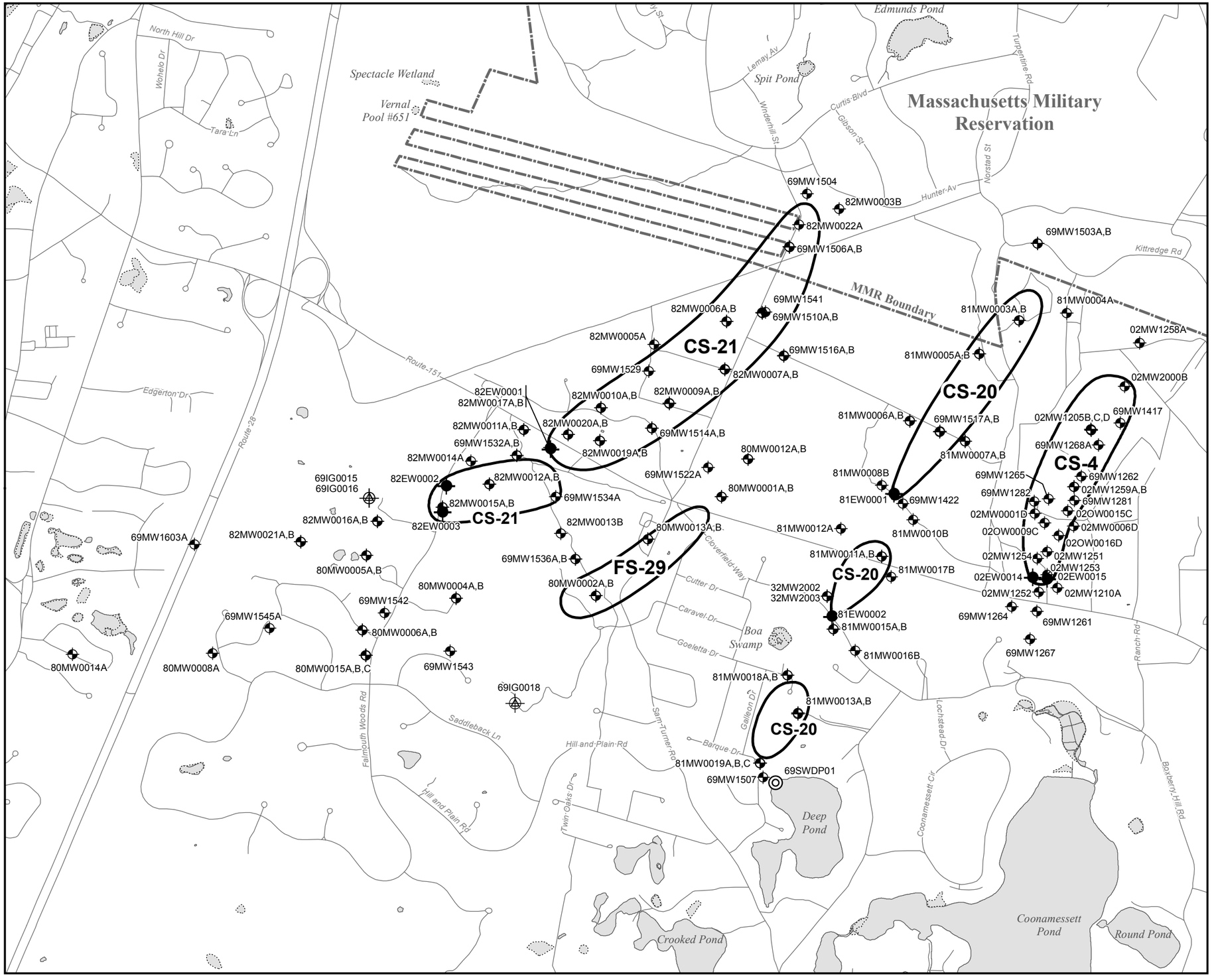
HUNTER AVENUE TREATMENT FACILITY PROCESS FLOW DIAGRAM

AFCEC - Massachusetts Military Reservation

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Legend

- Extraction Well
- Monitoring Well
- Irrigation Well
- Surface Water Sample Location
- Massachusetts Military Reservation Boundary
- Southwest Plume Boundary

0 750 1,500 Feet

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 3

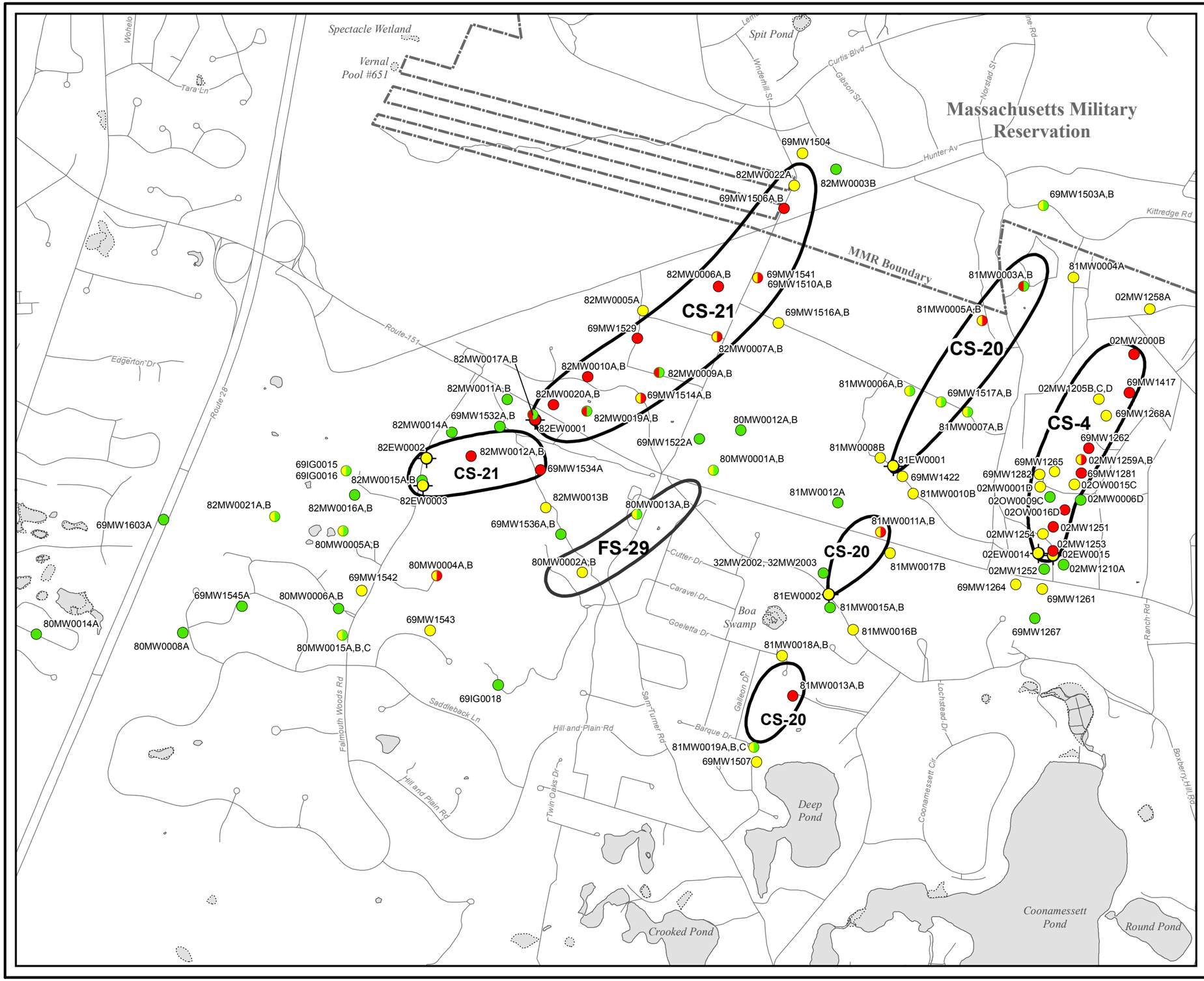
SOUTHWEST PLUMES CHEMICAL MONITORING LOCATIONS

AFCEC - Massachusetts Military Reservation

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Legend

- Extraction Well
- Massachusetts Military Reservation Boundary
- Southwest Plume Boundary

Contaminant Detections in Groundwater:

- No Detection
- Detection Below or at MCL/MMCL/GW-1 Standard
- Detection Above MCL/MMCL/GW-1 Standard

0 700 1,400 Feet

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 4

SOUTHWEST PLUMES 2012 COC DETECTIONS IN GROUNDWATER

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TABLES

Table 1
Southwest Plumes Contaminants of Concern and Groundwater Standards
Southwest Plumes 2012 Summary Letter Report

Plume	COCs	Standard (µg/L)	Type
CS-4	PCE, TCE	5	MCL
	1,1,2,2-TeCA	2	GW-1
	EDB	0.02	MMCL
CS-20	PCE	5	MCL
CS-21	TCE	5	MCL
FS-29	CCl_4	5	MCL
	EDB	0.02	MMCL

Notes:
1. MCLs from U.S. Environmental Protection Agency (EPA) web page, http://www.epa.gov/safewater/contaminants/index.html.
2. MMCLs from Massachusetts Department of Environmental Protection (MassDEP) web page, http://www.mass.gov/dep/water/dwstand.pdf.
3. GW-1 = MassDEP MCP Method 1 Groundwater-1 Standards from MassDEP web page http://www.mass.gov/dep/cleanup/laws/0974_2.htm.

Key:
COC = contaminant of concern
CCl_4 = carbon tetrachloride
CS-4 = Chemical Spill-4
CS-20 = Chemical Spill-20
CS-21 = Chemical Spill-21
EDB = ethylene dibromide
FS-29 = Fuel Spill-29
GW-1 = MCP Method 1 Groundwater-1 Standard
MCL = Maximum Contaminant Level
MCP = Massachusetts Contingency Plan
MMCL = Massachusetts MCL
PCE = tetrachloroethene
TCE = trichloroethene
TeCA = tetrachloroethane
µg/L = micrograms per liter

Table 2
Southwest Plumes Well Construction and Surface Water Sampling Information
Southwest Plumes 2012 Summary Letter Report

Location	Northing (ft)	Easting (ft)	Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Total Well Depth (ft bgs)	Top Screen Elevation (ft msl)	Bottom Screen Elevation (ft msl)	Screen Length (ft)
02EW0014	232080	855093	93.48	87.69	210	-58.52	-111.52	53
02EW0015	232054	855297	94.66	88.83	197	-57.34	-97.34	40
02MW0001D	232977	855121	97.12	97.41	177	-74.38	-79.38	5
02MW0006D	232796	855668	97.26	97.05	177	-74.44	-79.44	5
02MW1205B	234161	855911	101.42	100.85	154	-47.58	-52.58	5
02MW1205C	234157	855912	101.28	100.78	136	-29.22	-34.22	5
02MW1205D	234151	855913	101.23	100.74	120	-13.77	-18.77	5
02MW1210A	231927	855435	95.00	97.93	142	-42.00	-47.00	5
02MW1251	232438	855297	95.89	95.66	202	-101.57	-106.57	5
02MW1252	231865	855176	93.20	95.29	173	-74.51	-79.51	5
02MW1253	232111	855293	94.43	94.06	213	-112.68	-117.68	5
02MW1254	232339	855155	94.80	97.32	214	-113.80	-118.80	5
02MW1258A	235379	856600	105.25	104.85	135	-24.50	-29.40	5
02MW1259A	233350	855674	99.03	98.71	226	-120.97	-125.97	5
02MW1259B	233350	855673	99.03	98.70	166	-60.97	-65.97	5
02MW2000B	234769	856387	103.41	103.13	125	-16.59	-21.28	5
02OW0009C	232841	855256	99.77	99.06	159	-51.88	-56.88	5
02OW0015C	233010	855584	98.32	98.02	156	-52.68	-57.68	5
02OW0016D	232662	855455	97.90	97.68	177	-73.90	-78.90	5
32MW2002	231808	852193	98.67	98.23	255	-151.33	-156.33	5
32MW2003	231808	852193	98.67	98.24	105	-1.33	-6.33	5
69IG0015	233199	845736	132.00	132.00	265	-123.00	-133.00	10
69IG0016	233196	845740	130.00	133.00	200	-64.00	-70.00	6
69IG0018	230299	847793	72.40	71.37	100	-17.16	-27.16	10
69MW1261	231595	855150	92.06	92.13	162	-64.94	-69.94	5
69MW1262	233501	855779	99.85	99.39	173	-68.15	-73.15	5
69MW1264	231657	854794	85.78	85.27	165	-74.22	-79.22	5
69MW1265	233182	855316	98.26	98.04	232	-128.74	-133.74	5
69MW1267	231201	855052	91.01	93.66	152	-55.99	-60.99	5
69MW1268A	233937	856016	100.26	99.83	144	-38.51	-43.51	5
69MW1281	233162	855678	98.64	98.36	200	-96.36	-101.36	5
69MW1282	233143	855111	98.00	100.55	190	-87.00	-92.00	5
69MW1417	234249	856324	101.10	101.55	150	-43.90	-48.90	5
69MW1422	233119	853259	74.19	73.78	210	-130.81	-135.81	5
69MW1503A	236782	855160	79.50	80.75	151	-66.50	-71.50	5
69MW1503B	236782	855160	79.50	80.74	93	-8.50	-13.50	5
69MW1504	237488	851907	126.64	126.37	195	-58.26	-68.26	10
69MW1506A	236738	851657	124.36	126.68	240	-110.44	-115.44	5
69MW1506B	236729	851661	124.50	126.51	140	-10.40	-15.40	5
69MW1507	229258	851288	64.83	67.27	155	-85.07	-90.07	5
69MW1510A	235808	851277	123.97	126.37	176	-47.13	-52.13	5
69MW1510B	235799	851279	123.65	126.10	116	12.85	7.85	5
69MW1514A	234180	849720	104.29	104.08	288	-179.11	-183.51	4
69MW1514B	234180	849720	104.29	104.07	168	-57.81	-63.11	5
69MW1516A	235194	851583	120.25	123.39	200	-74.75	-79.75	5
69MW1516B	235201	851583	120.49	122.80	155	-29.51	-34.51	5
69MW1517A	234126	853780	107.20	109.13	236	-123.00	-128.00	5
69MW1517B	234133	853782	107.22	109.28	156	-43.28	-48.28	5
69MW1522A	233625	850516	103.01	105.52	325	-216.79	-221.79	5
69MW1529	234983	849678	109.48	110.97	239	-124.52	-129.52	5
69MW1532A	233794	847820	119.23	120.74	286	-160.57	-165.77	5
69MW1532B	233794	847819	119.23	120.63	186	-60.57	-65.77	5
69MW1534A	233207	848367	120.55	123.02	287	-161.45	-166.45	5
69MW1536A	232334	848646	107.64	110.33	279	-165.86	-170.86	5
69MW1536B	232333	848646	107.64	110.27	179	-65.86	-70.86	5
69MW1541	235820	851324	123.97	123.53	252	-123.03	-128.03	5

Table 2
Southwest Plumes Well Construction and Surface Water Sampling Information
Southwest Plumes 2012 Summary Letter Report

Location	Northing (ft)	Easting (ft)	Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Total Well Depth (ft bgs)	Top Screen Elevation (ft msl)	Bottom Screen Elevation (ft msl)	Screen Length (ft)
69MW1542	231575	845951	135.31	137.17	225	-84.69	-89.69	5
69MW1543	231035	846877	139.20	141.47	280	-135.80	-140.80	5
69MW1545A	231362	844334	116.00	115.64	257	-136.00	-141.00	5
69MW1603A	232537	843273	97.25	99.86	241	-138.33	-143.33	5
69SWDP01	229171	851471	N/A	N/A	N/A	N/A	N/A	N/A
80MW0001A	233205	850702	106.34	105.91	201	-88.70	-93.80	5
80MW0001B	233205	850702	106.34	105.95	176	-63.88	-68.98	5
80MW0002A	231817	848935	112.48	114.48	260	-142.52	-147.52	5
80MW0002B	231817	848935	112.48	114.49	175	-57.52	-62.52	5
80MW0004A	231778	846962	145.91	147.40	288	-137.14	-141.92	5
80MW0004B	231778	846962	145.91	147.35	247	-96.38	-101.15	5
80MW0005A	232383	845698	124.98	124.66	265	-134.27	-139.27	5
80MW0005B	232383	845698	124.98	124.64	216	-85.23	-90.24	5
80MW0006A	231328	845641	136.81	136.43	265	-122.56	-127.65	5
80MW0006B	231327	845641	136.81	136.43	225	-82.56	-87.65	5
80MW0008A	231006	843530	121.76	121.58	255	-127.63	-132.65	5
80MW0012A	233742	851075	115.50	115.08	286	-165.25	-170.02	5
80MW0012B	233742	851076	115.50	115.02	157	-35.86	-40.56	5
80MW0013A	232609	849666	111.23	110.71	275	-159.00	-163.81	5
80MW0013B	232610	849666	111.23	110.73	171	-54.01	-59.00	5
80MW0014A	230985	841554	64.25	63.88	205	-134.90	-139.71	5
80MW0015A	230975	845688	116.87	116.49	275	-153.15	-157.87	5
80MW0015B	230971	845691	116.74	116.40	255	-133.18	-137.90	5
80MW0015C	230975	845687	116.87	116.48	185	-63.58	-67.77	4
81EW0001	233260	853135	76.18	70.35	222	-53.82	-140.82	87
81EW0002	231525	852261	101.93	94.95	255	-40.07	-148.07	108
81MW0003A	235694	854897	73.81	73.35	135	-56.10	-61.10	5
81MW0003B	235694	854896	73.81	73.35	75	3.95	-1.05	5
81MW0004A	235806	855569	95.23	94.90	145	-44.52	-49.52	5
81MW0005A	235230	854337	84.50	84.10	185	-95.00	-100.00	5
81MW0005B	235230	854336	84.50	83.98	160	-70.00	-75.00	5
81MW0006A	234277	853357	109.98	109.62	246	-130.02	-135.02	5
81MW0006B	234277	853357	109.98	109.67	176	-60.02	-65.02	5
81MW0007A	233991	854138	91.52	91.22	234	-137.38	-142.38	5
81MW0007B	233990	854138	91.52	91.35	105	-7.58	-12.58	5
81MW0008B	233372	852962	77.74	77.57	206	-122.76	-127.76	5
81MW0010B	232886	853404	69.50	69.22	126	-50.50	-55.50	5
81MW0011A	232371	852960	103.90	103.39	235	-125.99	-130.75	5
81MW0011B	232371	852960	103.90	103.41	155	-45.98	-50.74	5
81MW0012A	232761	852386	77.10	76.83	206	-122.90	-127.90	5
81MW0013A	230153	851780	82.75	82.91	175	-87.10	-92.21	5
81MW0013B	230163	851780	83.46	83.21	245	-156.21	-161.34	5
81MW0015A	231343	852280	100.16	99.88	255	-149.43	-154.12	5
81MW0015B	231343	852280	100.16	99.87	155	-49.85	-54.54	5
81MW0016B	231044	852591	94.88	94.31	135	-34.46	-39.17	5
81MW0017B	232083	853093	99.28	98.99	125	-21.04	-25.77	5
81MW0018A	230694	851633	67.76	67.51	224	-150.24	-155.24	5
81MW0018B	230694	851633	67.76	67.51	118	-44.24	-49.24	5
81MW0019A	229456	851248	79.39	79.18	237	-153.05	-157.56	5
81MW0019B	229456	851248	79.39	79.22	146	-62.10	-66.61	5
81MW0019C	229457	851248	79.39	79.20	75	9.23	4.39	5
82EW0001	233886	848295	121.17	115.12	342	-96.43	-215.43	119
82EW0002	233368	846826	128.83	122.68	300	-103.17	-166.17	63
82EW0003	232998	846776	126.37	120.22	309	-116.63	-180.63	64
82MW0003B	237268	852362	124.14	123.68	175	-45.65	-50.67	5
82MW0005A	235358	849753	114.94	114.43	156	-35.53	-40.53	5

Table 2
Southwest Plumes Well Construction and Surface Water Sampling Information
Southwest Plumes 2012 Summary Letter Report

Location	Northing (ft)	Easting (ft)	Surface Elevation (ft msl)	Measuring Point Elevation (ft msl)	Total Well Depth (ft bgs)	Top Screen Elevation (ft msl)	Bottom Screen Elevation (ft msl)	Screen Length (ft)
82MW0006A	235686	850774	124.59	124.28	265	-135.29	-140.41	5
82MW0006B	235686	850774	124.59	124.29	150	-20.28	-25.41	5
82MW0007A	235009	850751	114.45	114.27	275	-155.78	-160.20	4
82MW0007B	235009	850751	114.45	114.26	171	-50.89	-55.31	4
82MW0009A	234527	849967	101.39	100.97	315	-208.51	-213.51	5
82MW0009B	234527	849967	101.39	101.00	165	-57.93	-62.93	5
82MW0010A	234465	849003	120.53	120.08	347	-221.44	-226.24	5
82MW0010B	234464	849003	120.53	120.06	246	-120.00	-124.70	5
82MW0011A	234157	847918	119.64	122.15	345	-219.55	-224.66	5
82MW0011B	234156	847918	119.64	122.17	227	-98.81	-103.92	5
82MW0012A	233393	847433	151.44	151.89	315	-158.56	-163.56	5
82MW0012B	233393	847432	151.44	151.90	255	-98.56	-103.56	5
82MW0013B	232693	848438	116.66	119.54	216	-93.34	-98.34	5
82MW0014A	233713	847169	159.12	153.08	321	-156.68	-161.58	5
82MW0015A	233063	846769	122.84	122.33	296	-167.16	-172.16	5
82MW0015B	233064	846769	122.84	122.44	216	-87.16	-92.16	5
82MW0016A	232869	845856	130.98	130.28	255	-119.27	-124.02	5
82MW0016B	232869	845856	130.98	130.28	215	-78.59	-83.36	5
82MW0017A	233903	848284	120.94	120.73	322	-196.26	-201.06	5
82MW0017B	233904	848284	120.94	120.73	219	-93.21	-98.01	5
82MW0019A	234001	848990	113.92	113.54	315	-196.16	-200.99	5
82MW0019B	234001	848990	113.92	113.51	229	-110.09	-114.91	5
82MW0020A	234087	848542	120.08	119.79	335	-204.92	-214.92	10
82MW0020B	234087	848542	120.08	119.78	220	-94.63	-99.63	5
82MW0021A	232580	844773	106.00	105.50	258	-146.50	-151.50	5
82MW0021B	232580	844773	106.00	105.50	208	-96.50	-101.50	5
82MW0022A	237053	851796	122.85	122.50	140	-12.29	-17.29	5

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse

Key:
bgs = below ground surface
ft = feet
msl = mean sea level
N/A = not applicable

Table 3
CS-4 Groundwater Monitoring Results
Southwest Plumes 2012 Summary Letter Report

Location	Date	Laboratory Analyses				Water Quality Parameters					
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	Temp (°C)	pH (std)	DO (mg/L)	SpC (µS/cm)	ORP (mV)	Turbidity (NTU)
Extraction Well Results											
02EW0014	3/15/12	4.6	1.4	BRL	ND	9.75	5.79	7.83	124	183.6	20.2
02EW0014	6/13/12	4.4	1.2	BRL	ND	11.65	5.92	8.66	75	204.8	1.8
02EW0014	9/21/12	4.3	1.2	BRL	ND	11.48	6.37	9.61	76	159.6	0.0
02EW0014	12/18/12	3.9	1.1	BRL	NS	10.66	6.41	11.15	78	171.5	0.0
02EW0015	3/15/12	3.2	BRL	BRL	ND	9.83	5.61	8.54	128	185.6	19.6
02EW0015	6/13/12	3.2	BRL	BRL	ND	11.77	5.85	9.38	78	223.4	1.9
02EW0015	9/21/12	3.2	BRL	ND	ND	11.57	6.64	10.30	80	149.4	0.0
02EW0015	12/18/12	3.1	BRL	BRL	NS	10.91	6.49	10.52	81	169.5	0.3
Monitoring Well Results											
02MW0001D	3/5/12	1.1	BRL	ND	NS	--	--	--	--	--	--
02MW0006D	3/5/12	ND	ND	ND	NS	--	--	--	--	--	--
02MW1205B	3/7/12	1.4	ND	ND	NS	--	--	--	--	--	--
02MW1205C	3/7/12	3.8	ND	ND	NS	--	--	--	--	--	--
02MW1205D	3/7/12	BRL	ND	ND	NS	--	--	--	--	--	--
02MW1210A	3/5/12	ND	ND	ND	NS	--	--	--	--	--	--
02MW1251	3/5/12	**12**	3.1	BRL	ND	--	--	--	--	--	--
02MW1252	3/5/12	ND	ND	ND	NS	--	--	--	--	--	--
02MW1253	3/5/12	**21**	**5.6**	**3.5**	NS	--	--	--	--	--	--
02MW1254	3/5/12	3.3	BRL	BRL	NS	--	--	--	--	--	--
02MW1258A	3/14/12	BRL	ND	ND	NS	--	--	--	--	--	--
02MW1259A	3/7/12	BRL	ND	ND	NS	--	--	--	--	--	--
02MW1259B	3/7/12	**19**	3.8	BRL	NS	--	--	--	--	--	--
02MW2000B	3/14/12	**6.2**	BRL	ND	NS	--	--	--	--	--	--
02OW0009C	3/5/12	ND	ND	ND	NS	--	--	--	--	--	--
02OW0015C	3/7/12	BRL	ND	ND	NS	--	--	--	--	--	--
02OW0016D	3/5/12	**14**	2.7	BRL	NS	--	--	--	--	--	--
69MW1261	3/5/12	BRL	ND	ND	NS	--	--	--	--	--	--
69MW1262	3/7/12	**12**	2.6	BRL	NS	--	--	--	--	--	--
69MW1264	3/5/12	1.4	BRL	ND	NS	--	--	--	--	--	--
69MW1265	3/7/12	2.1	ND	ND	NS	--	--	--	--	--	--
69MW1267	4/25/12	ND	ND	ND	NS	--	--	--	--	--	--
69MW1268A	3/7/12	BRL	ND	ND	NS	--	--	--	--	--	--
69MW1281	3/7/12	**11**	2.1	BRL	NS	--	--	--	--	--	--
69MW1282	3/7/12	4.8	1.6	ND	NS	--	--	--	--	--	--
69MW1417	3/7/12	**5.5**	ND	ND	NS	--	--	--	--	--	--

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Notes:

BOLD values indicate an MCL or GW-1 standard exceedance.

--: Sample collected through use of passive diffusion bag sampler; water quality parameter collection not performed.

Key:

BRL = below the reporting limit
°C = degrees Celsius
CS-4 = Chemical Spill-4
DO = dissolved oxygen
EDB = ethylene dibromide
GW-1 = MCP Method 1 Groundwater-1 standard
MCL = Maximum Contaminant Level
MCP = Massachusetts Contingency Plan
MMCL = Massachusetts MCL
mg/L = milligrams per liter
mV = millivolts
ND = not detected
NS = not sampled
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
PCE = tetrachloroethene
SpC = specific conductance
std = standard units
TCE = trichloroethene
TeCA = tetrachloroethane
Temp = temperature
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter

Table 4
CS-20 Groundwater and Surface Water Monitoring Results
Southwest Plumes 2012 Summary Letter Report

Location	Date	Laboratory	Water Quality Parameters					
		PCE (µg/L) MCL = 5	Temp (°C)	pH (std)	DO (mg/L)	SpC (µS/cm)	ORP (mV)	Turbidity (NTU)
Extraction Well Results								
81EW0001	3/15/12	1.9	9.93	5.92	7.79	130	186.6	19.6
81EW0001	6/13/12	1.9	11.29	5.94	8.72	81	167	4.2
81EW0001	9/21/12	1.6	11.13	6.61	11.21	78	171.1	0.5
81EW0001	12/18/12	1.3	10.87	6.49	10.72	82	172.6	0.2
81EW0002	3/15/12	3	9.95	6.12	7.25	126	200.3	19.3
81EW0002	7/11/12	3.2	13.36	6.35	7.5	139	-73.1	22.2
81EW0002	9/21/12	2.9	11.44	6.84	8.21	77	150.5	0.8
81EW0002	12/18/12	2.3	10.64	6.64	9.44	80	162.3	1.3
Monitoring Well Results								
32MW2002	3/8/2012	ND	--	--	--	--	--	--
32MW2003	3/8/2012	ND	--	--	--	--	--	--
69MW1422	3/8/2012	BRL	--	--	--	--	--	--
69MW1503A	3/14/2012	ND	11.74	5.98	5.21	107	192.3	5
69MW1503B	3/14/2012	BRL	--	--	--	--	--	--
69MW1507	3/1/2012	1.6	--	--	--	--	--	--
69MW1517A	3/9/2012	BRL	--	--	--	--	--	--
69MW1517B	3/9/2012	ND	--	--	--	--	--	--
81MW0003A	3/9/2012	ND	--	--	--	--	--	--
81MW0003B	3/9/2012	**7**	--	--	--	--	--	--
81MW0004A	3/9/2012	1.4	--	--	--	--	--	--
81MW0005A	3/9/2012	BRL	--	--	--	--	--	--
81MW0005B	3/9/2012	**8.8**	--	--	--	--	--	--
81MW0006A	3/9/2012	BRL	--	--	--	--	--	--
81MW0006B	3/9/2012	ND	--	--	--	--	--	--
81MW0007A	3/9/2012	ND	--	--	--	--	--	--
81MW0007B	3/9/2012	BRL	--	--	--	--	--	--
81MW0008B	3/8/2012	BRL	--	--	--	--	--	--
81MW0010B	3/8/2012	BRL	--	--	--	--	--	--
81MW0011A	3/8/2012	2.7	--	--	--	--	--	--
81MW0011B	3/8/2012	**5.7**	--	--	--	--	--	--
81MW0012A	3/8/2012	ND	--	--	--	--	--	--
81MW0013A	3/1/2012	**11**	--	--	--	--	--	--
81MW0013A	9/6/2012	**9**	--	--	--	--	--	--
81MW0013B	3/1/2012	**23**	--	--	--	--	--	--
81MW0013B	9/6/2012	**20**	--	--	--	--	--	--
81MW0015A	3/8/2012	ND	--	--	--	--	--	--
81MW0015B	3/8/2012	ND	--	--	--	--	--	--
81MW0016B	3/8/2012	BRL	--	--	--	--	--	--
81MW0017B	3/8/2012	2.1	--	--	--	--	--	--
81MW0018A	3/1/2012	1.2	--	--	--	--	--	--
81MW0018B	3/1/2012	2.3	--	--	--	--	--	--
81MW0018B	9/6/2012	BRL	--	--	--	--	--	--
81MW0019A	3/1/2012	ND	--	--	--	--	--	--
81MW0019A	9/6/2012	ND	--	--	--	--	--	--
81MW0019B	3/1/2012	ND	--	--	--	--	--	--
81MW0019C	3/1/2012	ND	--	--	--	--	--	--
81MW0019C	9/6/2012	BRL	--	--	--	--	--	--
Surface Water Results[1,2]								
69SWDP01	4/11/2012	ND	13.52	6.94	11.96	115	131.9	0.8

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Notes:

[1] Surface water samples collected from Deep Pond under the recreational beach monitoring program.

[2] MassDEP ambient water quality criteria surface water standard for PCE = 1,100 µg/L; from 310 CMR 40.1516(1) at MassDEP web page http://www.mass.gov/dep/cleanup/laws/nrs07.pdf.

BOLD values indicate an MCL exceedance.

--: Sample collected through use of passive diffusion bag sampler; water quality parameter collection not performed.

Key:

BRL = below the reporting limit
°C = degrees Celsius
CS-20 = Chemical Spill-20
DO = dissolved oxygen
EDB = ethylene dibromide
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
mV = millivolts
ND = not detected
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
PCE = tetrachloroethene
SpC = specific conductance
std = standard units
Temp = temperature
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter

Table 5
CS-21 Groundwater Monitoring Results
Southwest Plumes 2012 Summary Letter Report

Location	Date	Laboratory Analyses	Water Quality Parameters					
		TCE (µg/L) MCL = 5	Temp (°C)	pH (std)	DO (mg/L)	SpC (µS/cm)	ORP (mV)	Turbidity (NTU)
Extraction Well Results								
82EW0001	3/15/2012	**6.3**	10.31	6.02	8.85	140	175.4	20.1
82EW0001	6/13/2012	**6.3**	11.28	6.22	9.32	94	138.3	2.7
82EW0001	10/17/2012	**6.5**	10.9	6.33	10.14	107	151.8	0.5
82EW0001	1/4/2013	**6.6**	9.8	6.19	9.05	124	193.6	12.2
82EW0002	3/30/2012	3.4	10.14	6.27	6.57	197	180.7	19.8
82EW0002	6/13/2012	2.8	11.65	6.33	7.39	153	150.9	2.8
82EW0002	9/21/2012	2.8	11.3	6.83	9.52	159	154	0.1
82EW0002	12/18/2012	2.5	11.53	6.45	8.66	172	143.8	1.1
82EW0003	3/15/2012	BRL	10.11	6.17	7.18	194	163.4	27
82EW0003	6/13/2012	1.4	12.14	6.39	7.55	144	132.1	3.8
82EW0003	9/21/2012	1.4	11.86	6.95	8.27	143	136.1	1.3
82EW0003	12/18/2012	1.5	10.93	6.48	10.67	153	152.5	0.9
Monitoring Well Results								
69MW1504	4/17/2012	BRL	--	--	--	--	--	--
69MW1506A	4/17/2012	**6.9**	--	--	--	--	--	--
69MW1506B	4/17/2012	**79**	21.95	6.12	2.26	166	72.8	0.3
69MW1510A	3/2/2012	**15**	11.61	6.04	4.41	263	202.1	4.3
69MW1510B	3/2/2012	3.9	--	--	--	--	--	--
69MW1514A	2/24/2012	**25**	--	--	--	--	--	--
69MW1514B	4/20/2012	1.9	15.12	6.83	3.93	147	-105.5	0
69MW1516A	3/2/2012	BRL	11.32	6.29	4.74	217	171.4	5
69MW1516B	3/2/2012	BRL	11.48	5.78	8.34	181	203.1	2.4
69MW1529	2/28/2012	**10**	--	--	--	--	--	--
69MW1532A	4/4/2012	ND	--	--	--	--	--	--
69MW1532B	4/4/2012	ND	--	--	--	--	--	--
69MW1534A	4/4/2012	**8.7**	--	--	--	--	--	--
69MW1541	3/2/2012	**8.2**	--	--	--	--	--	--
69MW1603A	4/16/2012	ND	--	--	--	--	--	--
80MW0005A	4/17/2012	ND	--	--	--	--	--	--
80MW0005B	4/17/2012	BRL	--	--	--	--	--	--
82MW0003B	2/24/2012	ND	--	--	--	--	--	--
82MW0005A	2/28/2012	1.1	--	--	--	--	--	--
82MW0006A	2/28/2012	**6**	--	--	--	--	--	--
82MW0006B	2/28/2012	**8.2**	--	--	--	--	--	--
82MW0007A	2/28/2012	**19**	--	--	--	--	--	--
82MW0007B	2/28/2012	BRL	--	--	--	--	--	--
82MW0009A	2/28/2012	**14**	--	--	--	--	--	--
82MW0009B	2/28/2012	ND	--	--	--	--	--	--
82MW0010A	2/24/2012	**45**	--	--	--	--	--	--
82MW0010B	2/24/2012	**18**	--	--	--	--	--	--
82MW0011A	4/4/2012	ND	--	--	--	--	--	--
82MW0011B	4/4/2012	ND	--	--	--	--	--	--
82MW0012A	4/16/2012	**23**	--	--	--	--	--	--
82MW0012B	4/16/2012	**13**	--	--	--	--	--	--
82MW0014A	4/16/2012	ND	--	--	--	--	--	--
82MW0015A	3/6/2012	ND	--	--	--	--	--	--
82MW0015B	3/6/2012	ND	--	--	--	--	--	--
82MW0016A	4/17/2012	ND	15.08	6.01	5.41	247	209	0
82MW0016B	4/17/2012	ND	--	--	--	--	--	--
82MW0017A	4/16/2012	**14**	--	--	--	--	--	--
82MW0017B	4/16/2012	ND	--	--	--	--	--	--
82MW0019A	3/6/2012	**13**	--	--	--	--	--	--
82MW0019B	3/6/2012	ND	--	--	--	--	--	--
82MW0020A	3/6/2012	**15**	--	--	--	--	--	--
82MW0020B	3/6/2012	**6.8**	--	--	--	--	--	--

Table 5
CS-21 Groundwater Monitoring Results
Southwest Plumes 2012 Summary Letter Report

Location	Date	Laboratory Analyses	Water Quality Parameters					
		TCE (µg/L) MCL = 5	Temp (°C)	pH (std)	DO (mg/L)	SpC (µS/cm)	ORP (mV)	Turbidity (NTU)
82MW0021A	4/20/2012	3	--	--	--	--	--	--
82MW0021A	9/6/2012	3.6	--	--	--	--	--	--
82MW0021B	4/20/2012	ND	--	--	--	--	--	--
82MW0021B	9/6/2012	ND	--	--	--	--	--	--
82MW0022A	4/17/2012	3.6	--	--	--	--	--	--
Irrigation Well Results[1]								
69IG0015	4/17/2012	ND	12.72	6.42	9.1	92	106.2	7.5
69IG0016	4/17/2012	BRL	13.45	6.52	9.28	108	116.3	9.7

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Notes:

BOLD values indicate an MCL exceedance.

--: Sample collected through use of passive diffusion bag sampler; water quality parameter collection not performed.

[1] Used to monitor golf course irrigation wells under the Land Use Control Program and the data is provided to the golf course manage

Key:

BRL = below the reporting limit
°C = degrees Celsius
CS-21 = Chemical Spill-21
DO = dissolved oxygen
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
mV = millivolts
ND = not detected
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
SpC = specific conductance
std = standard units
TCE = trichloroethene
Temp = temperature
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter

Table 6
FS-29 Groundwater Monitoring Results
Southwest Plumes 2012 Summary Letter Report

Location	Date	Laboratory Analyses		Water Quality Parameters					
		EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5	Temp (^oC)	pH (std)	DO (mg/L)	SpC (µS/cm)	ORP (mV)	Turbidity (NTU)
Monitoring Well Results									
69MW1522A	4/13/2012	ND	NS	12.1	6.49	4.85	207	-49.3	0
69MW1536A	4/16/2012	ND	NS	--	--	--	--	--	--
69MW1536B	4/16/2012	ND	NS	--	--	--	--	--	--
69MW1542	3/6/2012	ND	1.4	--	--	--	--	--	--
69MW1542	9/6/2012	ND	1.2	--	--	--	--	--	--
69MW1543	4/16/2012	ND	4.8	--	--	--	--	--	--
69MW1545A	4/16/2012	ND	NS	--	--	--	--	--	--
80MW0001A	4/13/2012	ND	NS	--	--	--	--	--	--
80MW0001B	4/13/2012	0.011	NS	--	--	--	--	--	--
80MW0002A	4/16/2012	BRL	NS	--	--	--	--	--	--
80MW0002B	4/16/2012	0.015	NS	--	--	--	--	--	--
80MW0004A	4/16/2012	BRL	**5.1**	--	--	--	--	--	--
80MW0004B	4/16/2012	BRL	NS	--	--	--	--	--	--
80MW0006A	3/6/2012	ND	NS	--	--	--	--	--	--
80MW0006A	9/6/2012	ND	NS	--	--	--	--	--	--
80MW0006B	3/6/2012	ND	NS	--	--	--	--	--	--
80MW0006B	9/6/2012	ND	NS	--	--	--	--	--	--
80MW0008A	4/16/2012	ND	NS	--	--	--	--	--	--
80MW0012A	4/13/2012	ND	NS	12.67	6.78	3.01	119	-87.7	0
80MW0012B	4/13/2012	ND	NS	--	--	--	--	--	--
80MW0013A	4/13/2012	0.011	NS	--	--	--	--	--	--
80MW0013B	4/13/2012	ND	NS	--	--	--	--	--	--
80MW0014A	2/24/2012	ND	NS	--	--	--	--	--	--
80MW0015A	3/6/2012	ND	5	--	--	--	--	--	--
80MW0015A	9/21/2012	ND	4.6	--	--	--	--	--	--
80MW0015B	3/6/2012	ND	4.4	--	--	--	--	--	--
80MW0015B	9/6/2012	ND	4.2	--	--	--	--	--	--
80MW0015C	3/6/2012	ND	NS	--	--	--	--	--	--
80MW0015C	9/6/2012	ND	NS	--	--	--	--	--	--
82MW0013B	4/4/2012	BRL	NS	--	--	--	--	--	--
Irrigation Well Results[1]									
69IG0018	4/29/2011	ND	ND	11.97	5.29	9.53	126	-23.9	1.5

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Notes:

BOLD values indicate an MCL or MMCL exceedance.

--: Sample collected through use of passive diffusion bag sampler; water quality parameter collection not performed.

[1] Used to monitor golf course irrigation wells under the Land Use Control Program and the data is provided to the golf course manager.

Key:

BRL = below the reporting limit
^oC = degrees Celsius
CCl_4 = carbon tetrachloride
DO = dissolved oxygen
EDB = ethylene dibromide
FS-29 = Fuel Spill-29
MCL = Maximum Contaminant Level
MMCL = Massachusetts MCL
mg/L = milligrams per liter
mV = millivolts
ND = not detected
NS = not sampled
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
SpC = specific conductance
std = standard units
Temp = temperature
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter

Table 7
Southwest Plumes Meeting Presentations
Southwest Plumes 2012 Summary Letter Report

Technical Update Meetings

26 January 2012	Southwest Plumes 2011 Semiannual SPEIM Data Presentation Follow Up
26 January 2012	CS-21 Remedial System Optimization Follow Up
20 June 2012	CS-21 Remedial System Optimization Follow Up/Project Note Signature
27 September 2012	Southwest Plumes Triennial SPEIM Data Presentation
28 November 2012	Southwest Plumes Triennial SPEIM Data Presentation Follow Up
28 November 2012	Southwest Plumes 2012 Semiannual SPEIM Data Presentation
28 November 2012	CS-20 Remedial System Optimization Approach

MMR Cleanup Team (MMRCT)

20 June 2012	CS-20 Leading Edge Update

SMB Meetings

No presentations

Conferences

No presentations

Table 8
Hunter Avenue Treatment Facility Sampling Results
Southwest Plumes 2012 Summary Letter Report

Month of Event	Sample Date	Loc ID	Sample Location	Laboratory Analyses					Water Quality Parameters					
				PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	CCl_4 (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	Temp (°C)	SpC (µS/cm)	DO (mg/L)	pH (std)	ORP (mV)	Turbidity (NTU)
February	31-Jan-12	85PLT01001	CS-21/FS-29 Influent	ND	4.0	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	1.3	ND	ND	ND	--	--	--	--	--	--
		85PLT01201	GAC1200A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01302	GAC1300B lead	ND	1.0	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	3.1	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
Carbon exchange was performed on CF1100A on 17 February 2012. Following carbon exchange CF1100B was placed in the lead position and CF1100A was placed in the lag position.														
March	27-Feb-12	85PLT01001	CS-21/FS-29 Influent	ND	4.9	ND	ND	ND	--	--	--	--	--	--
		85PLT01102	GAC1100B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01201	GAC1200A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01302	GAC1300B lead	ND	1.3	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	3.0	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
Carbon Train 1300 was taken offline on 06 March 2012. Spent carbon in CF1300B was removed. Carbon in CF1300A was transferred to another vessel.														
April	27-Mar-12	85PLT01001	CS-21/FS-29 Influent	ND	**5.3**	ND	ND	ND	--	--	--	--	--	--
		85PLT01102	GAC1100B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01201	GAC1200A lead	ND	1.1	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	3.2	BRL	ND	ND	ND						
		85PLT02202	GAC2200B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
May	26-Apr-12	85PLT01001	CS-21/FS-29 Influent	ND	4.7	ND	ND	ND	--	--	--	--	--	--
		85PLT01102	GAC1100B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01202	GAC1200B lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.7	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
Carbon exchange was performed on CF1200A on 03 May 2012. The carbon that was in CF1300A was moved into CF1200A. CF1200B was brought on as lead and CF1200A is lag.														

Table 8
Hunter Avenue Treatment Facility Sampling Results
Southwest Plumes 2012 Summary Letter Report

Month of Event	Sample Date	Loc ID	Sample Location	Laboratory Analyses					Water Quality Parameters					
				PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	CCl_4 (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	Temp (°C)	SpC (µS/cm)	DO (mg/L)	pH (std)	ORP (mV)	Turbidity (NTU)
June	29-May-12	85PLT01001	CS-21/FS-29 Influent	ND	4.8	ND	ND	ND	10.29	109	7.58	6.05	164.2	0.0
		85PLT01102	GAC1100B lead	ND	1.3	ND	ND	ND	10.30	108	7.78	6.04	180.0	0.0
		85PLT01202	GAC1200B lead	ND	BRL	ND	ND	ND	10.31	108	6.73	6.05	189.0	0.0
		85PLT01002	CS-4/CS-20 Influent	2.7	BRL	ND	BRL	ND	10.39	81	7.99	5.90	179.8	0.9
		85PLT02202	GAC2200B lead	BRL	BRL	ND	ND	ND	10.42	81	7.42	5.89	199.8	0.0
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	10.46	82	8.86	5.93	191.6	0.5
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	10.37	99	6.45	6.02	185.0	0.1
Carbon exchange was performed on CF1100B on 18 June 2012. Following carbon exchange CF1100A was placed in the lead position and CF1100B was placed in the lag position.														
July	26-Jun-12	85PLT01001	CS-21/FS-29 Influent	ND	**5.1**	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT01202	GAC1200B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.9	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
Carbon exchange was performed on CF2300A on 28 July 2011. Following carbon exchange CF2300A was placed in the lag position and CF2300B was placed in the lead position.														
August	18-Jul-12	85PLT01001	CS-21/FS-29 Influent	ND	**5.5**	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT01202	GAC1200B lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.7	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
September	28-Aug-12	85PLT01001	CS-21/FS-29 Influent	ND	**5.1**	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT01202	GAC1200B lead	ND	1.1	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.8	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	1.0	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02302	GAC2300B lead	1.1	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--
Carbon exchange was performed on CF1200B on 12 September 2012. Following carbon exchange CF1200A was placed in the lead position and CF1200B was placed in the lag position. Note: virgin coconut carbon														
Carbon exchange was performed on CF2300B on 17 September 2012. Following carbon exchange CF2300A was placed in the lead position and CF2300B was placed in the lag position. Note: virgin coconut carbon														
October	27-Sep-12	85PLT01001	CS-21/FS-29 Influent	ND	**8.0**	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01201	GAC1200A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.4	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02202	GAC2200B lead	1.3	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02301	GAC2300A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	BRL	ND	ND	ND	--	--	--	--	--	--

Table 8
Hunter Avenue Treatment Facility Sampling Results
Southwest Plumes 2012 Summary Letter Report

Month of Event	Sample Date	Loc ID	Sample Location	Laboratory Analyses					Water Quality Parameters					
				PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	CCl_4 (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	Temp (°C)	SpC (µS/cm)	DO (mg/L)	pH (std)	ORP (mV)	Turbidity (NTU)
Carbon exchange was performed on CF2200B on 22 October 2012. Following carbon exchange CF2200A was placed in the lead position and CF2200B was placed in the lag position. Note: virgin coconut carbon														
November	25-Oct-12	85PLT01001	CS-21/FS-29 Influent	ND	4.9	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01201	GAC1200A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	2.1	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02201	GAC2200A lead	ND	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02301	GAC2300A lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	ND	ND	ND	ND	--	--	--	--	--	--
December	28-Nov-12	85PLT01001	CS-21/FS-29 Influent	ND	**5.4**	ND	ND	ND	10.04	160	6.33	7.14	150.7	0.1
		85PLT01101	GAC1100A lead	ND	BRL	ND	ND	ND	10.03	160	9.01	6.97	226.5	0.1
		85PLT01201	GAC1200A lead	ND	1.2	ND	ND	ND	10.02	160	7.32	6.96	213.0	0.1
		85PLT01002	CS-4/CS-20 Influent	2.5	BRL	ND	ND	ND	10.03	93	8.43	7.06	196.3	0.1
		85PLT02201	GAC2200A lead	BRL	BRL	ND	ND	ND	10.02	91	7.84	6.96	215.3	0.2
		85PLT02301	GAC2300A lead	BRL	BRL	ND	ND	ND	10.02	91	9.23	6.94	205.8	0.4
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	ND	ND	ND	ND	10.00	123	10.39	6.98	231.5	0.0
Carbon exchange was performed on CF1200A on 21 December 2012. Following carbon exchange CF1200B was placed in the lead position and CF1200A was placed in the lag position. Note: reactivated carbon														
January	26-Dec-12	85PLT01001	CS-21/FS-29 Influent	ND	**7.6**	ND	ND	ND	--	--	--	--	--	--
		85PLT01101	GAC1100A lead	ND	1.2	ND	ND	ND	--	--	--	--	--	--
		85PLT01202	GAC1200B lead	ND	ND	ND	ND	ND	--	--	--	--	--	--
		85PLT01002	CS-4/CS-20 Influent	3.0	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02201	GAC2200A lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT02301	GAC2300A lead	BRL	BRL	ND	ND	ND	--	--	--	--	--	--
		85PLT01003	Combined Effluent (CS-4/CS-20 & CS-21/FS-29)	ND	ND	ND	ND	ND	--	--	--	--	--	--

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Notes:

BOLD values indicate an MCL exceedance.

Water quality parameters (pH, temperature, DO, SpC, turbidity, and ORP) are measured semiannually at influent, post-GAC at each active GAC vessel, and plant effluent sampling locations. The measurements are taken using a flow-through cell and the Yellow Springs Instrument (YSI).

--: Water quality parameters were not collected.

Key:

BRL = below reporting limit
°C = degrees Celsius
CCl_4 = carbon tetrachloride
CS = Chemical Spill
DO = dissolved oxygen
EDB = ethylene dibromide
FS = Fuel Spill
GAC = granular activated carbon
GW-1 = MCP Method 1 Groundwater-1 standard
mg/L = milligrams per liter
MCL = Maximum Contaminant Level
MCP = Massachusetts Contingency Plan
MMCL = Massachusetts MCL
mV = millivolts
ND = not detected
NTU = nephelometric turbidity units
ORP = oxidation-reduction potential
PCE = tetrachloroethene
SpC = specific conductance
Std = standard units
Temp = temperature
TCE = trichloroethene
TeCA = tetrachloroethane
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter

Table 9
CS-4 and CS-20 Flow Rates
Southwest Plumes 2012 Summary Letter Report

Week Ending	CS-4 Weekly Average Flow Rates (gpm)		CS-20 Weekly Average Flow Rates (gpm)		CS-4/CS-20 Influent Flow Rates (gpm)
	02EW0014	02EW0015	81EW0001[1]	81EW0002	85PLT01002
2010 Scenario 02					
7-Jan-12	85	83	200	349	717
14-Jan-12	85	85	200	349	719
21-Jan-12	16	116	200	349	681
28-Jan-12	0	134	169	312	616
Average Flow Rate (gpm)	**47**	**104**	**192**	**340**	**683**
Optimized Design Flow Rate (gpm) (2010 Scenario 02)	**85**	**85**	**400**	**349**	**919**
Percent of Optimized Design Rate	**55**	**123**	**48**	**97**	**74**
2012 Scenario 01					
4-Feb-12	29	90	162	280	561
11-Feb-12	83	85	177	349	694
18-Feb-12	85	85	162	349	681
25-Feb-12	82	81	181	335	680
3-Mar-12	84	84	200	347	715
10-Mar-12	85	85	192	349	711
17-Mar-12	85	85	200	349	719
24-Mar-12	85	85	200	349	719
31-Mar-12	85	85	200	335	705
7-Apr-12	85	85	200	349	719
14-Apr-12	78	78	184	349	690
21-Apr-12	83	76	200	349	707
28-Apr-12	85	85	199	349	718
5-May-12	78	78	194	338	688
12-May-12	81	81	192	334	689
19-May-12	81	81	182	251	595
26-May-12	81	81	178	0	341
2-Jun-12	81	81	191	0	354
9-Jun-12	81	81	185	0	348
16-Jun-12	81	81	192	169	523
23-Jun-12	81	81	167	334	664
30-Jun-12	72	60	168	289	589
7-Jul-12	81	81	191	334	689
14-Jul-12	73	72	274	301	721
21-Jul-12	70	60	290	305	725
28-Jul-12	57	60	340	246	702
4-Aug-12	81	75	382	334	873
11-Aug-12	75	63	351	289	778
18-Aug-12	70	68	337	334	809
25-Aug-12	78	78	364	319	838
1-Sep-12	81	78	338	334	831
8-Sep-12	70	71	227	347	715
15-Sep-12	67	67	233	276	643
22-Sep-12	81	75	326	287	769
29-Sep-12	81	79	383	285	828

Table 9
CS-4 and CS-20 Flow Rates
Southwest Plumes 2012 Summary Letter Report

Week Ending	CS-4 Weekly Average Flow Rates (gpm)		CS-20 Weekly Average Flow Rates (gpm)		CS-4/CS-20 Influent Flow Rates (gpm)
	02EW0014	02EW0015	81EW0001[1]	81EW0002	85PLT01002
6-Oct-12	60	59	278	208	605
13-Oct-12	79	79	373	285	817
20-Oct-12	81	81	354	279	795
27-Oct-12	81	70	318	247	717
3-Nov-12	72	72	335	247	725
10-Nov-12	85	85	384	298	851
17-Nov-12	66	66	305	181	617
24-Nov-12	82	67	384	293	826
1-Dec-12	85	85	396	301	866
8-Dec-12	85	85	362	302	834
15-Dec-12	73	73	266	253	665
22-Dec-12	85	79	345	331	841
29-Dec-12	85	82	345	297	809
Average Flow Rate (gpm)	**78**	**77**	**262**	**285**	**702**
Optimized Design Flow Rate (gpm) (2012 Scenario 01)	**85**	**85**	**400**	**349**	**919**
Percent of Optimized Design Rate	**92**	**91**	**66**	**82**	**76**

Data Source: AFCEC, January 2013, MMR-AFCEC Data Warehouse.

Notes:

[1] Flow was reduced to 200 gpm at 81EW0001 between 01 January and 10 July 2013 for flow testing purposes.

Any downtime due to routine and non-routine operations and maintenance activities is included in the average flow rates.

2012 Scenario 01 flow rate changes occurred at CS-21 only (see Table 10).

Key:

CS-4 = Chemical Spill-4

CS-20 = Chemical Spill-20

gpm = gallons per minute

Table 10
CS-21 Flow Rates
Southwest Plumes 2012 Summary Letter Report

Week Ending	CS-21 Weekly Average Flow Rates (gpm)			CS-21 Influent Flow Rates (gpm)
	82EW0001	82EW0002	82EW0003	85PLT01001
2010 Scenario 02				
7-Jan-12	499	274	274	1046
14-Jan-12	499	274	274	1047
21-Jan-12	500	274	274	1048
28-Jan-12	448	245	245	939
Average Flow Rate (gpm)	**487**	**267**	**267**	**1020**
Optimized Design Flow Rate (gpm) (2010 Scenario 02)	**500**	**274**	**274**	**1048**
Percent of Optimized Design Rate	**97**	**97**	**97**	**97**
2012 Scenario 01				
4-Feb-12	406	187	187	780
11-Feb-12	500	65	120	685
18-Feb-12	500	0	200	700
25-Feb-12	481	8	192	681
3-Mar-12	500	71	200	771
10-Mar-12	499	59	200	758
17-Mar-12	499	59	198	757
24-Mar-12	447	20	166	632
31-Mar-12	499	79	121	699
7-Apr-12	468	100	100	668
14-Apr-12	479	100	100	679
21-Apr-12	500	100	100	700
28-Apr-12	428	86	86	600
5-May-12	388	78	78	543
12-May-12	479	96	96	670
19-May-12	479	96	96	670
26-May-12	479	96	96	670
2-Jun-12	478	96	96	670
9-Jun-12	479	96	96	670
16-Jun-12	476	96	96	668
23-Jun-12	464	96	96	656
30-Jun-12	421	84	84	589
7-Jul-12	479	96	96	671
14-Jul-12	432	86	86	605
21-Jul-12	412	69	82	564
28-Jul-12	333	66	66	466
4-Aug-12	479	96	96	670
11-Aug-12	416	85	88	589
18-Aug-12	359	82	82	524
25-Aug-12	361	91	91	544
1-Sep-12	461	96	96	652
8-Sep-12	346	83	83	511
15-Sep-12	359	91	91	542
22-Sep-12	365	96	96	556

Table 10
CS-21 Flow Rates
Southwest Plumes 2012 Summary Letter Report

Week Ending	CS-21 Weekly Average Flow Rates (gpm)			CS-21 Influent Flow Rates (gpm)
	82EW0001	82EW0002	82EW0003	85PLT01001
29-Sep-12	387	96	96	579
6-Oct-12	350	70	80	499
13-Oct-12	429	91	96	616
20-Oct-12	405	96	96	596
27-Oct-12	280	96	96	471
3-Nov-12	325	85	85	494
10-Nov-12	329	100	89	517
17-Nov-12	387	77	75	538
24-Nov-12	289	97	97	482
1-Dec-12	387	100	100	587
8-Dec-12	360	100	100	559
15-Dec-12	428	86	86	600
22-Dec-12	411	100	100	611
29-Dec-12	376	99	99	574
Average Flow Rate (gpm)	**423**	**85**	**107**	**615**
Optimized Design Flow Rate (gpm) (2012 Scenario 01)	**500**	**100**	**100**	**700**
Percent of Optimized Design Rate	**85**	**85**	**107**	**88**

Data Source: AFCEC, January 2013, MMR-AFCEC Data Warehouse.

Note:
Any downtime due to routine and non-routine operations and maintenance activities is included in the average flow rates.

Key:
CS-21 = Chemical Spill-21
gpm = gallons per minute

Table 11
Hunter Avenue Treatment Facility Downtime Summary
Southwest Plumes 2012 Summary Letter Report

Date	Hours Off-Line	Reason
1/18/2012	360.08	02EW0014 off due to pump failure.
1/26/2012	7.87	81EW0001 communications failure.
1/28/2012	49.08	Plant tripped off due to a high sump level.
2/9/2012	333.25	82EW0002 off due to VFD issue. Bypass installed 2/23/2012 - operate on AM off PM.
2/11/2012	50.63	81EW0001 VFD fault.
2/22/2012	5.72	Power outage.
3/20/2012	141.25	82EW0002 off; installed rebuilt VFD.
3/21/2012	17.83	82EW0001 and 82EW0003 off/no alarm/power outages reported; cycle power in vault.
4/11/2012	12.08	02EW0014, 02EW0015, 81EW0001 VFD faults caused by power outage.
4/28/2012	56.83	82EW0001, 82EW0002, and 82EW0003 off due to a power failure.
5/15/2012	7.87	81EW0001 communication failure.
5/19/2012	583.82	81EW0002 low flow due to bad pump and motor.
6/15/2012	9.03	81EW0002 communication failure.
6/18/2012	25.00	Reduce flow 82EW0001 from 500 gpm to 400 gpm for carbon exchange.
7/12/2012	16.95	Energy curtailment.
7/18/2012	15.07	Power failure during thunderstorms.
7/23/2012	11.42	02EW0014 and 02EW0015 off due to a power failure.
7/24/2012	15.25	Plant tripped off due to a power failure; all wells restarted except 81EW0002.
7/24/2012	44.75	81EW0002 off due to VFD fault.
8/8/2012	13.83	Plant tripped off due to a high sump level.
8/24/2012	7.33	Plant tripped off due to a high sump level.
9/5/2012	16.92	Plant tripped off due to a power failure at wells.
9/5/2012	19.08	81EW0002 off due to a power failure; well had to have power cycles to reset VFD.
9/7/2012	91.17	81EW0001 off for well maintenance to remove packers.
9/8/2012	57.52	82EW0001 VFD fault.
9/11/2012	7.83	Plant tripped off due to a high sump level caused by communication failure with wells.
9/17/2012	25.17	81EW0001 off for carbon exchange CF2300B.
10/1/2012	24.00	82EW0001, 82EW0002, 82EW0003, 81EW0001, 82EW0002, 02EW0014, and 02EW0015 off due to power failure/VFD faults.
10/1/2012	25.75	82EW0003 off; VFD/communications issue.
10/4/2012	19.57	Plant tripped off due to a power failure in well field.
10/9/2012	3.97	Plant tripped off due to high sump level caused by wells tripping off.
10/21/2012	30.40	82EW0001 off due to VFD fault.
10/29/2012	25.58	Intentionally shut plant down due to hurricane/possible energy curtailment.
11/11/2012	20.68	82EW0001, 82EW0002, 82EW0003, 02EW0014, 02EW0015, 81EW0001, and 82EW0002 off due to power failure.
11/13/2012	5.17	Plant tripped off, power failure in the well field.
11/19/2012	5.42	Shut plant down for gas company digging on Boxberry Hill Road.
12/21/2012	73.33	82EW0001 setpoint changed from 500 gpm to 400 gpm due to carbon exchange on CF1200A.
12/30/2012	15.25	Plant tripped off due to a power failure.

Key:
gpm = gallons per minute
VFD = variable frequency drive

Table 12
Hunter Avenue Treatment Facility Mass Removal Summary
Southwest Plumes 2012 Summary Letter Report

Date	85PLT01001 (CS-21/FS-29) Influent						Monthly Total COC Mass (lbs)
	TCE		EDB		CCl_4		
	Incremental Mass (lbs)	Accumulated Mass (lbs)	Incremental Mass (lbs)	Accumulated Mass (lbs)	Incremental Mass (lbs)	Accumulated Mass (lbs)	
Jan-12	1.46	143.20	0.00	0.002	0.00	9.24	1.5
Feb-12	1.25	144.40	0.00	0.002	0.00	9.24	1.3
Mar-12	1.41	145.70	0.00	0.002	0.00	9.24	1.4
Apr-12	1.07	146.90	0.00	0.002	0.00	9.24	1.1
May-12	1.19	148.00	0.00	0.002	0.00	9.24	1.2
Jun-12	1.19	149.20	0.00	0.002	0.00	9.24	1.2
Jul-12	1.20	150.40	0.00	0.002	0.00	9.24	1.2
Aug-12	1.11	151.50	0.00	0.002	0.00	9.24	1.1
Sep-12	1.60	152.90	0.00	0.002	0.00	9.24	1.6
Oct-12	0.94	154.00	0.00	0.002	0.00	9.24	0.9
Nov-12	1.05	155.10	0.00	0.002	0.00	9.24	1.1
Dec-12	1.56	156.50	0.00	0.002	0.00	9.24	1.6
Total TCE Mass Removed (lbs) at 85PLT01001 During the Reporting Period (January 2012 - December 2012)							**15.0**
Total EDB Mass Removed (lbs) at 85PLT01001 During the Reporting Period (January 2012 - December 2012)							**0.0**
Total CCl4 Mass Removed (lbs) at 85PLT01001 During the Reporting Period (January 2012 - December 2012)							**0.0**
Total TCE Mass Removed (lbs) at 85PLT01001 Since Startup (September 2006 - December 2012)							**156.5**
Total EDB Mass Removed (lbs) at 85PLT01001 Since Startup (September 2006 - December 2012)							**0.002**
Total CCl_4 Mass Removed (lbs) at 85PLT01001 Since Startup (September 2006 - December 2012)							**9.2**
Total COC Mass Removed (lbs) at 85PLT01001 During the Reporting Period (January 2012 - December 2012)							**15.0**
Total COC Mass Removed (lbs) at 85PLT01001 Since Startup (September 2006 - December 2012)							**165.7**

Table 12
Hunter Avenue Treatment Facility Mass Removal Summary
Southwest Plumes 2012 Summary Letter Report

Date	85PLT01002 (CS-4/CS-20) Influent								Monthly Total COC Mass (lbs)
	PCE		TCE		EDB		1,1,2,2-TeCA		
	Incremental Mass (lbs)	Accumulated Mass (lbs)	Incremental Mass (lbs)	Accumulated Mass (lbs)	Incremental Mass (lbs)	Accumulated Mass (lbs)	Incremental Mass (lbs)	Accumulated Mass (lbs)	
Jan-12	0.75	108.90	0.09	11.18	0.00	0.003	0.00	1.16	0.8
Feb-12	0.72	109.60	0.11	11.27	0.00	0.003	0.00	1.16	0.8
Mar-12	0.85	110.50	0.13	11.40	0.00	0.003	0.00	1.16	1.0
Apr-12	0.69	111.20	0.11	11.51	0.00	0.003	0.00	1.16	0.8
May-12	0.54	111.70	0.11	11.63	0.00	0.003	0.01	1.17	0.7
Jun-12	0.54	112.30	0.09	11.73	0.00	0.003	0.01	1.18	0.6
Jul-12	0.73	113.00	0.16	11.88	0.00	0.003	0.00	1.18	0.9
Aug-12	0.85	113.90	0.13	12.03	0.00	0.003	0.00	1.18	1.0
Sep-12	0.64	114.50	0.10	12.13	0.00	0.003	0.00	1.18	0.7
Oct-12	0.56	115.10	0.10	12.23	0.00	0.003	0.00	1.18	0.7
Nov-12	0.72	115.80	0.10	12.34	0.00	0.003	0.00	1.18	0.8
Dec-12	0.84	116.60	0.09	12.43	0.00	0.003	0.00	1.18	0.9
Total PCE Mass Removed (lbs) at 85PLT01002 During Reporting Period (January 2012 - December 2012)									**8.4**
Total TCE Mass Removed (lbs) at 85PLT01002 During Reporting Period (January 2012 - December 2012)									**1.3**
Total EDB Mass Removed (lbs) at 85PLT01002 During Reporting Period (January 2012 - December 2012)									**0.0**
Total 1,1,2,2-TeCA Mass Removed (lbs) at 85PLT01002 During Reporting Period (January 2012 - December 2012)									**0.0**
Total PCE mass removed (lbs) at 85PLT01002 (January 2006 - December 2012)									**116.6**
Total TCE mass removed (lbs) at 85PLT01002 (January 2006 - December 2012)									**12.4**
Total EDB mass removed (lbs) at 85PLT01002 (January 2006 - December 2012)									**0.003**
Total 1,1,2,2-TeCA mass removed (lbs) at 85PLT01002 (January 2006 - December 2012)									**1.2**
Total contaminant mass removed (lbs) at 85PLT01002 During Reporting Period (January 2012 - December 2012)									**9.8**
Total contaminant mass removed (lbs) at 85PLT01002 Since Startup (January 2006 - December 2012)									**130.2**
Total COC mass removed (lbs) at Hunter Avenue Treatment Plant During Report Period (January 2012 - December 2012)									**24.8**
Total COC mass removed (lbs) at Hunter Avenue Treatment Plant Since Startup (January 2006 - December 2012)									**296.0**

Data Source: AFCEC, February 2013, AFCEC-MMR Data Warehouse

Key:

CCl_4 = carbon tetrachloride
COC = contaminant of concern
CS-4 = Chemical Spill-4
CS-20 = Chemical Spill-20
CS-21 = Chemical Spill-21
EDB = ethylene dibromide
FS-29 = Fuel Spill-29
lbs = pounds
PCE = tetrachloroethene
TCE = trichloroethene
TeCA = tetrachloroethane

Table 13
CS-4 Extraction Well Mass Removal Summary
Southwest Plumes 2012 Summary Letter Report

Extraction Well	Period	PCE Mass Removed for Period (lb)	TCE Mass Removed for Period (lb)	1,1,2,2-TeCA Mass Removed for Period (lb)	EDB Mass Removed for Period (lb)	COC Mass Removed for Period (lb)
02EW0014	January 2006 - December 2006	2.1	0.8	0.4	0.0006	3.3
	January 2007 - December 2007	2.3	0.8	0.4	0.0000	3.6
	January 2008 - December 2008	1.7	0.6	0.2	0.0000	2.4
	January 2009 - December 2009	1.7	0.4	0.2	0.0000	2.3
	January 2010 - December 2010	1.6	0.6	0.2	0.0000	2.4
	January 2011 - December 2011	1.8	0.6	0.1	0.0000	2.4
	January 2012 - December 2012	1.9	0.5	0.1	0.0000	2.6
Percent of total mass removed by 02EW0014 since startup						58.1
02EW0015	January 2006 - December 2006	1.5	0.3	0.2	0.0000	2.0
	January 2007 - December 2007	0.8	0.1	0.0	0.0000	1.0
	January 2008 - December 2008	0.8	0.2	0.1	0.0000	1.0
	January 2009 - December 2009	0.9	0.2	0.1	0.0000	1.1
	January 2010 - December 2010	1.1	0.3	0.2	0.0000	1.6
	January 2011 - December 2011	1.2	0.3	0.1	0.0000	1.6
	January 2012 - December 2012	1.2	0.3	0.1	0.0000	1.6
Percent of total mass removed by 02EW0015 since startup						30.6
02EW0016*	January 2006 - December 2006	1.4	0.5	0.5	0.0000	2.3
	January 2007 - December 2007	0.6	0.2	0.1	0.0000	0.9
	January 2008 - December 2008	0.3	0.0	0.0	0.0000	0.3
	January 2009 - December 2009	0.2	0.0	0.0	0.0000	0.2
Percent of total mass removed by 02EW0016 since startup						11.3
Total PCE Mass Removed by CS-4 Extraction Wells During Reporting Period (January 2012 - December 2012)						**3.1**
Total TCE Mass Removed by CS-4 Extraction Wells During Reporting Period (January 2012 - December 2012)						**0.8**
Total 1,1,2,2-TeCA Mass Removed by CS-4 Extraction Wells During Reporting Period (January 2012 - December 2012)						**0.3**
Total EDB Mass Removed by CS-4 Extraction Wells During Reporting Period (January 2012 - December 2012)						**0.0**
Total COC Mass Removed by CS-4 Extraction Wells During Reporting Period (January 2012 - December 2012)						**4.2**
Total COC Mass Removed by CS-4 Extraction Wells Since Startup (January 2006 - December 2012)						**32.6**

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Note:
*02EW0016 was shutdown on 09 December 2009 as an optimization initiative.

Key:
COC = contaminant of concern
CS-4 = Chemical Spill-4
EDB = ethylene dibromide
lb = pound
PCE = tetrachloroethene
TCE = trichloroethene
TeCA = tetrachloroethane
µg/L = micrograms per liter

Table 14
CS-20 Extraction Well Mass Removal Summary
Southwest Plumes 2012 Summary Letter Report

Extraction Well	Period	PCE Mass Removed for Period (lb)
81EW0001	January 2006 - December 2006	15.1
	January 2007 - December 2007	7.9
	January 2008 - December 2008	5.1
	January 2009 - December 2009	3.6
	January 2010 - December 2010	2.7
	January 2011 - December 2011	1.7
	January 2012 - December 2012	2.1
Percent of total mass removed by 81EW0001 since startup		43.1
81EW0002	January 2006 - December 2006	7.7
	January 2007 - December 2007	12.8
	January 2008 - December 2008	8.5
	January 2009 - December 2009	6.4
	January 2010 - December 2010	5.3
	January 2011 - December 2011	4.4
	January 2012 - December 2012	5.4
Percent of total mass removed by 81EW0002 since startup		56.9
Total COC mass removed by CS-20 extraction wells During Reporting Period (January 2012 - December 2012)		**7.6**
Total COC Mass Removed by CS-20 Extraction Wells Since Startup (January 2006 - December 2012)		**88.7**

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Key:
COC = contaminant of concern
CS-20 = Chemical Spill-20
lb = pound
PCE = tetrachloroethene

Table 15
CS-21 Extraction Well Mass Removal Summary
Southwest Plumes 2012 Summary Letter Report

Extraction Well	Period	TCE Mass Removed for Period (lb)
82EW0001	September 2006 - December 2006	8.4
	January 2007 - December 2007	19.4
	January 2008 - December 2008	15.3
	January 2009 - December 2009	14.5
	January 2010 - December 2010	13.6
	January 2011 - December 2011	15.3
	January 2012 - December 2012	14.7
Percent of total mass removed by 82EW0001 since startup		65.3
82EW0002	September 2006 - December 2006	5.1
	January 2007 - December 2007	10.2
	January 2008 - December 2008	6.7
	January 2009 - December 2009	4.8
	January 2010 - December 2010	4.1
	January 2011 - December 2011	4.2
	January 2012 - December 2012	1.5
Percent of total mass removed by 82EW0002 since startup		23.6
82EW0003	September 2006 - December 2006	1.6
	January 2007 - December 2007	3.4
	January 2008 - December 2008	2.5
	January 2009 - December 2009	1.9
	January 2010 - December 2010	1.6
	January 2011 - December 2011	1.2
	January 2012 - December 2012	0.6
Percent of total mass removed by 82EW0003 since startup		8.2
82EW0004*	September 2006 - December 2006	0.05
	January 2007 - December 2007	0.9
	January 2008 - December 2008	1.3
	January 2009 - December 2009	1.6
	January 2010 - June 2010	0.7
Percent of total mass removed by 82EW0004 since startup		2.9
Total COC Mass Removed by CS-21 Extraction Wells During Report Period (January 2012 - December 2012)		**16.8**
Total COC Mass Removed by CS-21 Extraction Wells Since Startup (September 2006 - December 2012)		**155.0**

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse.

Note:
*82EW0004 was shutdown on 23 June 2010 as an optimization initiative.

Key:
COC = contaminant of concern
CS-21 = Chemical Spill-21
lb = pound
TCE = trichloroethene

Table 16
Southwest Plumes Remedial Systems Electrical Consumption and Associated Air Emissions
Southwest Plumes 2012 Summary Letter Report

		1/1/2012 to 12/31/2012	System Startup (11/2005) to 12/31/2012
Volume of Groundwater Treated (billion gallons)		**0.7**	**8.0**
Groundwater COC Mass Removal (pounds)		**24.8**	**296.0**
Electrical Usage (MWh)		**866**	**13,602**
Estimated Air Emissions[1] (based on electrical usage)	**CO_2 (tons)**	567	11115
	NOx (lbs)	1,221	19523
	PM-10 (lbs)	70	1018
	SO_2 (lbs)	3,256	38998
	VOCs (lbs)	43	967
Estimated Reduction in Air Emissions due to Green Power Purchases[2]	**CO_2 (tons)**	148	2,551
	NOx (lbs)	319	4,942
	PM-10 (lbs)	18	251
	SO_2 (lbs)	850	10,833
	VOCs (lbs)	11	188
Estimated Reduction in Air Emissions due to MMR Wind Turbine Operation[3]	**CO_2 (tons)**	584	1693
	NOx (lbs)	1,258	3645
	PM-10 (lbs)	72	209
	SO_2 (lbs)	3,355	9720
	VOCs (lbs)	44	127
Estimated Total Air Emissions with consideration of Green Power Purchases and MMR Wind Turbine Operation	**CO_2 (tons)**	**0**	**6,870**
	NOx (lbs)	**0**	**10,936**
	PM-10 (lbs)	**0**	**559**
	SO_2 (lbs)	**0**	**18,446**
	VOCs (lbs)	**0**	**652**

Notes:

1) The estimated air emissions presented in this table are based on the assumption that until 4/30/2009, the power used to operate the MMR remedial systems was provided by the Mirant Canal Station power plant in Sandwich, MA. This power plant primarily produced electricity generated by the combustion of fuel oil and has been off-line since 5/1/2009. Starting on 5/1/2009, air emissions are based on electricity generated by the average mix of power sources in Massachusetts. Air emissions were calculated using MMR utility data from AFCEE's Metrix 4 Utility Accounting Software (http://www.abraxasenergy.com/metrix4.php) and emission factors obtained from the following websites:
http://www.csgnetwork.com/elecpowerpolcalc.html
http://www.metrixcentral.com/EmissionsCalculator/Emissions%20Factors%202004.pdf
2) Emissions offset by purchases of electricity from renewable sources beginning 7/1/2008 and ending on 8/1/2012.
3) Emissions offset by operation of AFCEE-owned wind turbines beginning on 12/2/2009 (Wind I) and 11/8/2011 (Wind II).

Key:
COC = contaminant of concern
CO_2 = carbon dioxide
lbs = pounds
MMR = Massachusetts Military Reservation
MWh = megawatt hours
NO_x = nitrogen oxides
PM-10 = particulate matter with a diameter of 10 micrometers or less
SO_2 = sulfur dioxide
VOCs = volatile organic compounds

ATTACHMENT A

Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
02EW0014	3/15/2012	-85.02	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0014	3/15/2012	-85.02	WG	SW8260B	TETRACHLOROETHENE (PCE)	4.6	0.19	1	5	MCL	No
02EW0014	3/15/2012	-85.02	WG	SW8260B	TRICHLOROETHENE (TCE)	1.4	0.2	1	5	MCL	No
02EW0014	6/13/2012	-85.02	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0014	6/13/2012	-85.02	WG	SW8260B	TETRACHLOROETHENE (PCE)	4.4	0.19	1	5	MCL	No
02EW0014	6/13/2012	-85.02	WG	SW8260B	TRICHLOROETHENE (TCE)	1.2	0.2	1	5	MCL	No
02EW0014	9/21/2012	-85.02	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0014	9/21/2012	-85.02	WG	SW8260B	TETRACHLOROETHENE (PCE)	4.3	0.19	1	5	MCL	No
02EW0014	9/21/2012	-85.02	WG	SW8260B	TRICHLOROETHENE (TCE)	1.2	0.2	1	5	MCL	No
02EW0014	12/18/2012	-85.02	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0014	12/18/2012	-85.02	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.9	0.19	1	5	MCL	No
02EW0014	12/18/2012	-85.02	WG	SW8260B	TRICHLOROETHENE (TCE)	1.1	0.2	1	5	MCL	No
02EW0015	3/15/2012	-77.34	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0015	3/15/2012	-77.34	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.2	0.19	1	5	MCL	No
02EW0015	3/15/2012	-77.34	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02EW0015	6/13/2012	-77.34	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0015	6/13/2012	-77.34	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.2	0.19	1	5	MCL	No
02EW0015	6/13/2012	-77.34	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02EW0015	9/21/2012	-77.34	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.2	0.19	1	5	MCL	No
02EW0015	9/21/2012	-77.34	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02EW0015	12/18/2012	-77.34	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02EW0015	12/18/2012	-77.34	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.1	0.19	1	5	MCL	No
02EW0015	12/18/2012	-77.34	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02MW0001D	3/5/2012	-76.88	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.1	0.19	1	5	MCL	No
02MW0001D	3/5/2012	-76.88	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02MW1205B	3/7/2012	-50.08	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.4	0.19	1	5	MCL	No
02MW1205C	3/7/2012	-31.72	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.8	0.19	1	5	MCL	No
02MW1205D	3/7/2012	-16.27	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
02MW1251	3/5/2012	-104.07	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02MW1251	3/5/2012	-104.07	WG	SW8260B	TETRACHLOROETHENE (PCE)	12	0.19	1	5	MCL	Yes
02MW1251	3/5/2012	-104.07	WG	SW8260B	TRICHLOROETHENE (TCE)	3.1	0.2	1	5	MCL	No
02MW1253	3/5/2012	-115.18	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	3.5	0.13	1	2	GW-1	Yes
02MW1253	3/5/2012	-115.18	WG	SW8260B	cis-1,2-DICHLOROETHENE	BRL	0.2	1	70	MCL	No
02MW1253	3/5/2012	-115.18	WG	SW8260B	TETRACHLOROETHENE (PCE)	21	0.19	1	5	MCL	Yes
02MW1253	3/5/2012	-115.18	WG	SW8260B	TRICHLOROETHENE (TCE)	5.6	0.2	1	5	MCL	Yes
02MW1254	3/5/2012	-116.30	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02MW1254	3/5/2012	-116.30	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.3	0.19	1	5	MCL	No
02MW1254	3/5/2012	-116.30	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02MW1258A	3/14/2012	-26.95	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
02MW1259A	3/7/2012	-123.47	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
02MW1259B	3/7/2012	-63.47	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
02MW1259B	3/7/2012	-63.47	WG	SW8260B	cis-1,2-DICHLOROETHENE	BRL	0.2	1	70	MCL	No
02MW1259B	3/7/2012	-63.47	WG	SW8260B	TETRACHLOROETHENE (PCE)	19	0.19	1	5	MCL	Yes
02MW1259B	3/7/2012	-63.47	WG	SW8260B	TRICHLOROETHENE (TCE)	3.8	0.2	1	5	MCL	No
02MW2000B	3/14/2012	-18.94	WG	SW8260B	TETRACHLOROETHENE (PCE)	6.2	0.19	1	5	MCL	Yes
02MW2000B	3/14/2012	-18.94	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
02OW0015C	3/7/2012	-55.18	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
02OW0016D	3/5/2012	-76.40	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
02OW0016D	3/5/2012	-76.40	WG	SW8260B	cis-1,2-DICHLOROETHENE	BRL	0.2	1	70	MCL	No
02OW0016D	3/5/2012	-76.40	WG	SW8260B	TETRACHLOROETHENE (PCE)	14	0.19	1	5	MCL	Yes
02OW0016D	3/5/2012	-76.40	WG	SW8260B	TRICHLOROETHENE (TCE)	2.7	0.2	1	5	MCL	No
69IG0016	4/17/2012	-67.00	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1261	3/5/2012	-67.44	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1262	3/7/2012	-70.65	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
69MW1262	3/7/2012	-70.65	WG	SW8260B	TETRACHLOROETHENE (PCE)	12	0.19	1	5	MCL	Yes
69MW1262	3/7/2012	-70.65	WG	SW8260B	TRICHLOROETHENE (TCE)	2.6	0.2	1	5	MCL	No
69MW1264	3/5/2012	-76.72	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.4	0.19	1	5	MCL	No
69MW1264	3/5/2012	-76.72	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1265	3/7/2012	-131.24	WG	SW8260B	TETRACHLOROETHENE (PCE)	2.1	0.19	1	5	MCL	No
69MW1268A	3/7/2012	-41.01	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1281	3/7/2012	-98.86	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
69MW1281	3/7/2012	-98.86	WG	SW8260B	TETRACHLOROETHENE (PCE)	11	0.19	1	5	MCL	Yes
69MW1281	3/7/2012	-98.86	WG	SW8260B	TRICHLOROETHENE (TCE)	2.1	0.2	1	5	MCL	No
69MW1282	3/7/2012	-89.50	WG	SW8260B	cis-1,2-DICHLOROETHENE	BRL	0.2	1	70	MCL	No
69MW1282	3/7/2012	-89.50	WG	SW8260B	TETRACHLOROETHENE (PCE)	4.8	0.19	1	5	MCL	No
69MW1282	3/7/2012	-89.50	WG	SW8260B	TRICHLOROETHENE (TCE)	1.6	0.2	1	5	MCL	No
69MW1417	3/7/2012	-46.40	WG	SW8260B	TETRACHLOROETHENE (PCE)	5.5	0.19	1	5	MCL	Yes
69MW1422	3/8/2012	-133.31	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1422	3/8/2012	-133.31	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1503A	3/14/2012	-69.00	WG	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
69MW1503A	3/14/2012	-69.00	WG	SW8260B	TRICHLOROETHENE (TCE)	2.9	0.2	1	5	MCL	No
69MW1503B	3/14/2012	-11.00	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1504	4/17/2012	-63.26	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1506A	4/17/2012	-112.94	WG	SW8260B	TRICHLOROETHENE (TCE)	6.9	0.2	1	5	MCL	Yes
69MW1506B	4/17/2012	-12.90	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1506B	4/17/2012	-12.90	WG	SW8260B	TRICHLOROETHENE (TCE)	79	0.2	1	5	MCL	Yes
69MW1507	3/1/2012	-87.57	WG	E524.2	TETRACHLOROETHENE (PCE)	1.6	0.25	0.5	5	MCL	No
69MW1510A	3/2/2012	-49.63	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1510A	3/2/2012	-49.63	WG	SW8260B	TRICHLOROETHENE (TCE)	15	0.2	1	5	MCL	Yes
69MW1510B	3/2/2012	10.35	WG	SW8260B	TRICHLOROETHENE (TCE)	3.9	0.2	1	5	MCL	No
69MW1514A	2/24/2012	-181.31	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1514A	2/24/2012	-181.31	WG	SW8260B	TRICHLOROETHENE (TCE)	25	0.2	1	5	MCL	Yes

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Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
69MW1514B	4/20/2012	-60.46	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1514B	4/20/2012	-60.46	WG	SW8260B	TRICHLOROETHENE (TCE)	1.9	0.2	1	5	MCL	No
69MW1516A	3/2/2012	-77.25	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1516B	3/2/2012	-32.01	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1517A	3/9/2012	-125.50	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1517A	3/9/2012	-125.50	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1529	2/28/2012	-127.02	WG	SW8260B	TRICHLOROETHENE (TCE)	10	0.2	1	5	MCL	Yes
69MW1534A	4/4/2012	-163.95	WG	SW8260B	TRICHLOROETHENE (TCE)	8.7	0.2	1	5	MCL	Yes
69MW1541	3/2/2012	-125.53	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
69MW1541	3/2/2012	-125.53	WG	SW8260B	TRICHLOROETHENE (TCE)	8.2	0.2	1	5	MCL	Yes
69MW1542	3/6/2012	-87.19	WG	SW8260B	CARBON TETRACHLORIDE	1.4	0.2	1	5	MCL	No
69MW1542	3/6/2012	-87.19	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
69MW1542	9/6/2012	-87.19	WG	SW8260B	CARBON TETRACHLORIDE	1.2	0.2	1	5	MCL	No
69MW1543	4/16/2012	-138.30	WG	SW8260B	CARBON TETRACHLORIDE	4.8	0.2	1	5	MCL	No
80MW0001B	4/13/2012	-66.43	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.011	0.005	0.01	0.02	MMCL	No
80MW0002A	4/16/2012	-145.02	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	0.02	MMCL	No
80MW0002B	4/16/2012	-60.02	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.015	0.005	0.01	0.02	MMCL	No
80MW0004A	4/16/2012	-139.53	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	0.02	MMCL	No
80MW0004A	4/16/2012	-139.53	WG	SW8260B	CARBON TETRACHLORIDE	5.1	0.2	1	5	MCL	Yes
80MW0004A	4/16/2012	-139.53	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
80MW0004B	4/16/2012	-98.77	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	0.02	MMCL	No
80MW0005A	4/17/2012	-136.77	WG	SW8260B	CARBON TETRACHLORIDE	BRL	0.2	1	5	MCL	No
80MW0005B	4/17/2012	-87.74	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
80MW0013A	4/13/2012	-161.41	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.011	0.005	0.01	0.02	MMCL	No
80MW0015A	3/6/2012	-155.51	WG	SW8260B	CARBON TETRACHLORIDE	5	0.2	1	5	MCL	No
80MW0015A	9/21/2012	-155.51	WG	SW8260B	CARBON TETRACHLORIDE	4.6	0.2	1	5	MCL	No
80MW0015B	3/6/2012	-135.54	WG	SW8260B	CARBON TETRACHLORIDE	4.4	0.2	1	5	MCL	No
80MW0015B	9/6/2012	-135.54	WG	SW8260B	CARBON TETRACHLORIDE	4.2	0.2	1	5	MCL	No
81EW0001	3/15/2012	-97.32	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.9	0.19	1	5	MCL	No
81EW0001	3/15/2012	-97.32	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81EW0001	6/13/2012	-97.32	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.9	0.19	1	5	MCL	No
81EW0001	6/13/2012	-97.32	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81EW0001	9/21/2012	-97.32	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.6	0.19	1	5	MCL	No
81EW0001	9/21/2012	-97.32	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81EW0001	12/18/2012	-97.32	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.3	0.19	1	5	MCL	No
81EW0001	12/18/2012	-97.32	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81EW0002	3/15/2012	-94.07	WG	SW8260B	TETRACHLOROETHENE (PCE)	3	0.19	1	5	MCL	No
81EW0002	7/11/2012	-94.07	WG	SW8260B	TETRACHLOROETHENE (PCE)	3.2	0.19	1	5	MCL	No
81EW0002	9/21/2012	-94.07	WG	SW8260B	TETRACHLOROETHENE (PCE)	2.9	0.19	1	5	MCL	No
81EW0002	12/18/2012	-94.07	WG	SW8260B	TETRACHLOROETHENE (PCE)	2.3	0.19	1	5	MCL	No
81MW0003A	3/9/2012	-58.60	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
81MW0003B	3/9/2012	1.45	WG	SW8260B	TETRACHLOROETHENE (PCE)	7	0.19	1	5	MCL	Yes
81MW0004A	3/9/2012	-47.02	WG	SW8260B	TETRACHLOROETHENE (PCE)	1.4	0.19	1	5	MCL	No
81MW0005A	3/9/2012	-97.50	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0005B	3/9/2012	-72.50	WG	SW8260B	TETRACHLOROETHENE (PCE)	8.8	0.19	1	5	MCL	Yes
81MW0006A	3/9/2012	-132.52	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0006A	3/9/2012	-132.52	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81MW0006B	3/9/2012	-62.52	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81MW0007B	3/9/2012	-10.08	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0008B	3/8/2012	-125.26	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0008B	3/8/2012	-125.26	WG	SW8260B	TRICHLOROETHENE (TCE)	1.4	0.2	1	5	MCL	No
81MW0010B	3/8/2012	-53.00	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0011A	3/8/2012	-128.37	WG	SW8260B	TETRACHLOROETHENE (PCE)	2.7	0.19	1	5	MCL	No
81MW0011B	3/8/2012	-48.36	WG	SW8260B	TETRACHLOROETHENE (PCE)	5.7	0.19	1	5	MCL	Yes
81MW0013A	3/1/2012	-89.66	WG	E524.2	1,1,1-TRICHLOROETHANE	BRL	0.25	0.5	200	MCL	No
81MW0013A	3/1/2012	-89.66	WG	E524.2	TETRACHLOROETHENE (PCE)	11	0.25	0.5	5	MCL	Yes
81MW0013A	9/6/2012	-89.66	WG	SW8260B	TETRACHLOROETHENE (PCE)	9	0.19	1	5	MCL	Yes
81MW0013B	3/1/2012	-158.78	WG	E524.2	1,1,1-TRICHLOROETHANE	4.9	0.25	0.5	200	MCL	No
81MW0013B	3/1/2012	-158.78	WG	E524.2	1,1-DICHLOROETHENE	2.5	0.25	0.5	7	MCL	No
81MW0013B	3/1/2012	-158.78	WG	E524.2	CARBON TETRACHLORIDE	BRL	0.25	0.5	5	MCL	No
81MW0013B	3/1/2012	-158.78	WG	E524.2	TETRACHLOROETHENE (PCE)	23	0.5	1	5	MCL	Yes
81MW0013B	3/1/2012	-158.78	WG	E524.2	TRICHLOROETHENE (TCE)	BRL	0.25	0.5	5	MCL	No
81MW0013B	9/6/2012	-158.78	WG	SW8260B	CARBON TETRACHLORIDE	BRL	0.2	1	5	MCL	No
81MW0013B	9/6/2012	-158.78	WG	SW8260B	TETRACHLOROETHENE (PCE)	20	0.19	1	5	MCL	Yes
81MW0013B	9/6/2012	-158.78	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
81MW0016B	3/8/2012	-36.82	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0017B	3/8/2012	-23.41	WG	SW8260B	TETRACHLOROETHENE (PCE)	2.1	0.19	1	5	MCL	No
81MW0018A	3/1/2012	-152.74	WG	E524.2	1,1,1-TRICHLOROETHANE	0.8	0.25	0.5	200	MCL	No
81MW0018A	3/1/2012	-152.74	WG	E524.2	1,1-DICHLOROETHENE	BRL	0.25	0.5	7	MCL	No
81MW0018A	3/1/2012	-152.74	WG	E524.2	TETRACHLOROETHENE (PCE)	1.2	0.25	0.5	5	MCL	No
81MW0018B	3/1/2012	-46.74	WG	E524.2	TETRACHLOROETHENE (PCE)	2.3	0.25	0.5	5	MCL	No
81MW0018B	9/6/2012	-46.74	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
81MW0019C	9/6/2012	6.81	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82EW0001	3/15/2012	-155.93	WG	SW8260B	TRICHLOROETHENE (TCE)	6.3	0.2	1	5	MCL	Yes
82EW0001	6/13/2012	-155.93	WG	SW8260B	TRICHLOROETHENE (TCE)	6.3	0.2	1	5	MCL	Yes
82EW0001	10/17/2012	-155.93	WG	SW8260B	TRICHLOROETHENE (TCE)	6.5	0.2	1	5	MCL	Yes
82EW0002	3/30/2012	-134.67	WG	SW8260B	TRICHLOROETHENE (TCE)	3.4	0.2	1	5	MCL	No
82EW0002	6/13/2012	-134.67	WG	SW8260B	TRICHLOROETHENE (TCE)	2.8	0.2	1	5	MCL	No
82EW0002	9/21/2012	-134.67	WG	SW8260B	TRICHLOROETHENE (TCE)	2.8	0.2	1	5	MCL	No
82EW0002	12/18/2012	-134.67	WG	SW8260B	TRICHLOROETHENE (TCE)	2.5	0.2	1	5	MCL	No
82EW0003	3/15/2012	-148.63	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
82EW0003	6/13/2012	-148.63	WG	SW8260B	TRICHLOROETHENE (TCE)	1.4	0.2	1	5	MCL	No

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
82EW0003	9/21/2012	-148.63	WG	SW8260B	TRICHLOROETHENE (TCE)	1.4	0.2	1	5	MCL	No
82EW0003	12/18/2012	-148.63	WG	SW8260B	TRICHLOROETHENE (TCE)	1.5	0.2	1	5	MCL	No
82MW0003B	2/24/2012	-48.16	WG	SW8260B	cis-1,2-DICHLOROETHENE	BRL	0.2	1	70	MCL	No
82MW0005A	2/28/2012	-38.03	WG	SW8260B	TRICHLOROETHENE (TCE)	1.1	0.2	1	5	MCL	No
82MW0006A	2/28/2012	-137.85	WG	SW8260B	TRICHLOROETHENE (TCE)	6	0.2	1	5	MCL	Yes
82MW0006B	2/28/2012	-22.85	WG	SW8260B	TRICHLOROETHENE (TCE)	8.2	0.2	1	5	MCL	Yes
82MW0007A	2/28/2012	-157.99	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0007A	2/28/2012	-157.99	WG	SW8260B	TRICHLOROETHENE (TCE)	19	0.2	1	5	MCL	Yes
82MW0007B	2/28/2012	-53.10	WG	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
82MW0009A	2/28/2012	-211.01	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0009A	2/28/2012	-211.01	WG	SW8260B	TRICHLOROETHENE (TCE)	14	0.2	1	5	MCL	Yes
82MW0010A	2/24/2012	-223.84	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0010A	2/24/2012	-223.84	WG	SW8260B	TRICHLOROETHENE (TCE)	45	0.2	1	5	MCL	Yes
82MW0010B	2/24/2012	-122.35	WG	SW8260B	TRICHLOROETHENE (TCE)	18	0.2	1	5	MCL	Yes
82MW0012A	4/16/2012	-161.06	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0012A	4/16/2012	-161.06	WG	SW8260B	TRICHLOROETHENE (TCE)	23	0.2	1	5	MCL	Yes
82MW0012B	4/16/2012	-101.06	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0012B	4/16/2012	-101.06	WG	SW8260B	TRICHLOROETHENE (TCE)	13	0.2	1	5	MCL	Yes
82MW0013B	4/4/2012	-95.84	WG	E504.1	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	0.02	MMCL	No
82MW0017A	4/16/2012	-198.66	WG	SW8260B	TRICHLOROETHENE (TCE)	14	0.2	1	5	MCL	Yes
82MW0019A	3/6/2012	-198.58	WG	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
82MW0019A	3/6/2012	-198.58	WG	SW8260B	TRICHLOROETHENE (TCE)	13	0.2	1	5	MCL	Yes
82MW0020A	3/6/2012	-209.92	WG	SW8260B	TRICHLOROETHENE (TCE)	15	0.2	1	5	MCL	Yes
82MW0020B	3/6/2012	-97.13	WG	SW8260B	TRICHLOROETHENE (TCE)	6.8	0.2	1	5	MCL	Yes
82MW0021A	4/20/2012	-149.00	WG	SW8260B	TRICHLOROETHENE (TCE)	3	0.2	1	5	MCL	No
82MW0021A	9/6/2012	-149.00	WG	SW8260B	TRICHLOROETHENE (TCE)	3.6	0.2	1	5	MCL	No
82MW0022A	4/17/2012	-14.79	WG	SW8260B	TRICHLOROETHENE (TCE)	3.6	0.2	1	5	MCL	No
85PLT01001 (INF)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	4	0.2	1	5	MCL	No
85PLT01001 (INF)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	4.9	0.2	1	5	MCL	No
85PLT01001 (INF)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	5.3	0.2	1	5	MCL	Yes
85PLT01001 (INF)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	4.7	0.2	1	5	MCL	No
85PLT01001 (INF)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	4.8	0.2	1	5	MCL	No
85PLT01001 (INF)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	5.1	0.2	1	5	MCL	Yes
85PLT01001 (INF)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	5.5	0.2	1	5	MCL	Yes
85PLT01001 (INF)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	5.1	0.2	1	5	MCL	Yes
85PLT01001 (INF)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	8	0.2	1	5	MCL	Yes
85PLT01001 (INF)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	4.9	0.2	1	5	MCL	No
85PLT01001 (INF)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	5.4	0.2	1	5	MCL	Yes
85PLT01001 (INF)	12/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	7.6	0.2	1	5	MCL	Yes
85PLT01002 (INF)	1/31/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	3.1	0.19	1	5	MCL	No
85PLT01002 (INF)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No

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Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
85PLT01002 (INF)	2/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	3	0.19	1	5	MCL	No
85PLT01002 (INF)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	3/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	3.2	0.19	1	5	MCL	No
85PLT01002 (INF)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	5/1/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.7	0.19	1	5	MCL	No
85PLT01002 (INF)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	5/29/2012	N/A	WW	SW8260B	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	2	GW-1	No
85PLT01002 (INF)	5/29/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.7	0.19	1	5	MCL	No
85PLT01002 (INF)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	6/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.9	0.19	1	5	MCL	No
85PLT01002 (INF)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	7/18/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.7	0.19	1	5	MCL	No
85PLT01002 (INF)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	8/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.8	0.19	1	5	MCL	No
85PLT01002 (INF)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	9/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.4	0.19	1	5	MCL	No
85PLT01002 (INF)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	10/25/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.1	0.19	1	5	MCL	No
85PLT01002 (INF)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	11/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	2.5	0.19	1	5	MCL	No
85PLT01002 (INF)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01002 (INF)	12/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	3	0.19	1	5	MCL	No
85PLT01002 (INF)	12/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01003 (EFF)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01101 (MID)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.3	0.2	1	5	MCL	No
85PLT01101 (MID)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01101 (MID)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01101 (MID)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01101 (MID)	12/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.2	0.2	1	5	MCL	No
85PLT01102 (MID)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01102 (MID)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01102 (MID)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01102 (MID)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.3	0.2	1	5	MCL	No

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
85PLT01201 (MID)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01201 (MID)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01201 (MID)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.1	0.2	1	5	MCL	No
85PLT01201 (MID)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01201 (MID)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01201 (MID)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.2	0.2	1	5	MCL	No
85PLT01202 (MID)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01202 (MID)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01202 (MID)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT01202 (MID)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.1	0.2	1	5	MCL	No
85PLT01302 (MID)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1	0.2	1	5	MCL	No
85PLT01302 (MID)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	1.3	0.2	1	5	MCL	No
85PLT02201 (MID)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02201 (MID)	11/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02201 (MID)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02201 (MID)	12/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02201 (MID)	12/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	3/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02202 (MID)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	5/1/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02202 (MID)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	5/29/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02202 (MID)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	6/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02202 (MID)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	7/18/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02202 (MID)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	8/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	1	0.19	1	5	MCL	No
85PLT02202 (MID)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02202 (MID)	9/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	1.3	0.19	1	5	MCL	No
85PLT02202 (MID)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02301 (MID)	9/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02301 (MID)	10/25/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02301 (MID)	10/25/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02301 (MID)	11/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02301 (MID)	11/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02301 (MID)	12/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02301 (MID)	12/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	1/31/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	2/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No

Attachment A
Comparison of Detected Concentrations in Southwest Plumes Groundwater and Treatment Plant Samples to Applicable Groundwater Standards
Southwest Plumes 2011 Summary Letter Report

Location Identification	Sample Date	Sample Elevation (ft msl)	Matrix	Test	Analyte	Result	DL	RL	Standard	Type[1,2,3]	Standard Exceeded?
						All units = µg/L					
85PLT02302 (MID)	2/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	3/27/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02302 (MID)	3/27/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	5/1/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02302 (MID)	5/1/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	5/29/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02302 (MID)	5/29/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	6/26/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02302 (MID)	6/26/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	7/18/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	BRL	0.19	1	5	MCL	No
85PLT02302 (MID)	7/18/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No
85PLT02302 (MID)	8/28/2012	N/A	WW	SW8260B	TETRACHLOROETHENE (PCE)	1.1	0.19	1	5	MCL	No
85PLT02302 (MID)	8/28/2012	N/A	WW	SW8260B	TRICHLOROETHENE (TCE)	BRL	0.2	1	5	MCL	No

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse

Notes:

1. MCLs from Environmental Protection Agency (EPA) web page, http://water.epa.gov/drink/contaminants/
2. MMCLs from Massachusetts Department of Environmental Protection (MassDEP) web page, http://www.mass.gov/dep/water/dwstand.pdf.
3. GW-1 = MassDEP MCP Method 1 Groundwater-1 Standards from MassDEP web page http://www.mass.gov/dep/cleanup/laws/0974_2.htm.

Detections of tert-butyl methyl ether (MTBE), chloromethane, and the trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) are not included because they are not considered MMR plume-related compounds.

Key:

BRL = below the reporting limit
DL = detection limit
EFF = treatment plant effluent
ft msl = feet mean sea level
GW-1 = Groundwater-1
INF = treatment plant influent
MCL = Maximum Contaminant Level
MID = treatment plant midpoint sample
MMCL = Massachusetts MCL
N/A = not applicable
RL = reporting limit
WG = groundwater sample
WW = plant water
µg/L = micrograms per liter

ATTACHMENT B

Southwest Plumes 2012 SLR
Data Summary Report

Attachment B
Data Summary Report
Southwest Plumes 2012 Summary Letter Report

INTRODUCTION

The objective of this data summary report (DSR) is to assess the data quality of analytical results for samples collected for the Southwest Plumes System Performance and Ecological Impact Monitoring (SPEIM) Program at the Massachusetts Military Reservation (MMR) as presented in the *Southwest Plumes 2012 Summary Letter Report*. This report is intended as a general data quality assessment designed to summarize data issues.

ANALYTICAL DATA

This DSR covers 187 groundwater samples with nine field duplicate samples, one surface water sample, and 86 wastewater samples. Field duplicates are not required for treatment facility plant samples. These samples were reported under 60 sample delivery groups. Samples were collected between 31 January 2012 and 04 January 2013. The analyses were performed by Analytics Environmental Laboratory LLC (ANAP) in Portsmouth, New Hampshire. Samples were collected and shipped by overnight carrier or delivered by courier to ANAP for analysis. Samples were analyzed for one or more of the analytes/methods provided in Table B-1.

Table B-1
Analytical Parameter

Parameter	Method	Laboratory
Ethylene Dibromide (EDB)	E504.1	ANAP
Volatile Organic Compounds (VOC)	E524.2	ANAP
VOCs	SW8260B	ANAP
Screening Data VOCs	Modified SW8260B	ANAP

E = Environmental Protection Agency (EPA) Method
SW = SW 846 Test Methods for Evaluating Solid Waste, 3rd Edition, Revision 4, 1996
M = EPA Region 1 Technical Guidance Report

The data were assessed using the MMR SPEIM Quality Assurance Project Plan (QAPP)[1].

[1] AFCEE. 2012 (July). *AFCEE MMR SPEIM/LTM/O&M Program Quality Assurance Project Plan.* 420005-Program-Multiple-QAPP-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis ANG Base, MA.

The assessment included a review of the following:

- Chain-of-Custody documentation
- Holding time compliance
- Required quality control (QC) samples at the specified frequencies
- Method blanks
- Laboratory control spiking samples
- Surrogate spike recoveries
- Internal standards
- Initial and continuing calibration information and other method-specific criteria as defined by the SPEIM QAPP

Field samples were reviewed to ascertain field compliance and data quality issues. This included a review of trip blanks, equipment blanks, and field duplicates.

Data were carried through data validation as described in the SPEIM QAPP and data flags were assigned according to the SPEIM QAPP. These flags, and the reason for each flag, were entered into the electronic database and can be found in Table B-2 (located at the end of this attachment). Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there is only one final flag. A final flag is applied to the data, and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are listed in the SPEIM QAPP and are defined as follows:

- J = Analyte was present but the reported value may not be accurate or precise (estimated).
- R = Analyte result was unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
- U = Analyte was not detected at the specified detection limit.
- UJ = Analyte was not detected and the specified detection limit may not be accurate or precise (estimated).

FINDINGS

The summaries of the data validation findings are contained in the following subsections and Table B-2.

Holding Times

All holding-time criteria were met. No holding time flags were applied.

Calibration

Initial and continuing calibrations were analyzed as required in every analytical batch and were in control. No calibration flags were applied.

Method Blanks

Method blanks were analyzed at the required frequency for each method. No method blank flags were applied.

Field Blanks

Trip blanks and equipment blanks were collected and analyzed at the required frequency. Trichloroethene had a trip blank concentration less than RL for method SW8260B. There were four trichloroethene detected results flagged 'US'.

Field Duplicates

Field duplicates were collected as required, and precision was acceptable. No field duplicate flags were applied.

Matrix Spike Samples

Matrix spike/matrix spike duplicates were not required for these samples in accordance with the SPEIM QAPP.

Surrogates

Surrogate recoveries met each method SPEIM QAPP criteria. No surrogate flags were applied.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed as required and in control. No LCS flags were applied.

Confirmation Results

Confirmation samples were analyzed as required by method E504.1. No confirmation flags were applied.

Internal Standards

Internal standards were in control. No internal standard flags were applied.

Chain of Custody

No chain of custody anomalies were noted in the review.

Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected and the resulting analytical data can be used to support the decision-making process. The procedures for assessing the precision, accuracy, representativeness, completeness, and comparability parameters (PARCC) are addressed in the SPEIM QAPP. The following summary highlights the PARCC findings for the above-defined events:

1. The completeness goal for valid usable data is 95 percent for aqueous samples. Completeness for aqueous samples was 100 percent. The completeness goal was met for all compounds.

2. The routinely acceptable performance of field and laboratory QC indicators (field duplicates, field blanks, laboratory blanks, surrogate spikes, LCS, and calibrations) shows that the precision and accuracy of the data met project objectives.

3. Sample results are representative and comparable to field conditions and past historical data because the field sampling and laboratory analyses were performed using standardized and documented procedures as defined in project documents. In addition, all results were reported with industry standard units. A minimum number of sample results were qualified due to blank contamination. Blank concentrations were relatively low in relation to the RL and overall, reflect normal laboratory and field operating conditions.

Table B-2
Validation Flags[a]

Field ID	Method	Analyte	Final Result (µg/L)	Final Flag	Reason
CHPQ01265-T0312DIFS	SW8260B	Trichloroethene	1	US	TB<RL
CHPQ01417-T0312DIFS	SW8260B	Trichloroethene	1.2	US	TB<RL
CHPQ0205B-T0312DIFS	SW8260B	Trichloroethene	1	US	TB<RL
CHPQ0205C-T0312DIFS	SW8260B	Trichloroethene	1	US	TB<RL

[a]Field samples and field duplicates only.
Table sorted by Reason, Analyte and Field ID.

Key:
TB<RL = trip blank concentration less than RL
US = undetected screening data
µg/L = micrograms per liter

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02EW0014	3/15/2012	CHPQ00014-Q0312	178.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	4.6	0.19	1	µg/L	S
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.4	0.2	1	µg/L	S
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0014	3/15/2012	CHPQ00014-Q0312S	178.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0014	6/13/2012	CHPQ00014-Q0612	178.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	4.4	0.19	1	µg/L	S
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.2	0.2	1	µg/L	S
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0014	6/13/2012	CHPQ00014-Q0612S	178.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0014	9/21/2012	CHPQ00014-Q0912	178.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	4.3	0.19	1	µg/L	S
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.2	0.2	1	µg/L	S
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0014	9/21/2012	CHPQ00014-Q0912S	178.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.9	0.19	1	µg/L	S
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.1	0.2	1	µg/L	S
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0014	12/18/2012	CHPQ00014-Q1212S	178.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ00015-Q0312	172	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0015	3/15/2012	CHPQ10015-Q0312	172	FD1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.1	0.19	1	µg/L	S
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.2	0.19	1	µg/L	S
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ00015-Q0312S	172	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	3/15/2012	CHPQ10015-Q0312S	172	FD1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612	172	FD1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0015	6/13/2012	CHPQ00015-Q0612	172	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.4	0.19	1	µg/L	S
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.2	0.19	1	µg/L	S
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ10015-Q0612S	172	FD1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	6/13/2012	CHPQ00015-Q0612S	172	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912	172	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.2	0.19	1	µg/L	S
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	9/21/2012	CHPQ00015-Q0912S	172	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.1	0.19	1	µg/L	S
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02EW0015	12/18/2012	CHPQ00015-Q1212S	172	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.1	0.19	1	µg/L	S
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW0001D	3/5/2012	CHPQ0001D-T0312DIFS	174	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW0006D	3/5/2012	CHPQ0006D-T0312DIFS	174.2	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.4	0.19	1	µg/L	S
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1205B	3/7/2012	CHPQ0205B-T0312DIFS	151.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.8	0.19	1	µg/L	S
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1205C	3/7/2012	CHPQ0205C-T0312DIFS	133	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1205D	3/7/2012	CHPQ0205D-T0312DIFS	117.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US

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Analytical Laboratory Results, January - December 2012
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1210A	3/5/2012	CHPQ0210A-T0312DIFS	139.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIF	199.96	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	12	0.19	1	µg/L	S
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.1	0.2	1	µg/L	S
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1251	3/5/2012	CHPQ01251-T0312DIFS	199.96	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1252	3/5/2012	CHPQ01252-T0312DIFS	170.21	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	3.5	0.13	1	µg/L	S
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	21	0.19	1	µg/L	S
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.6	0.2	1	µg/L	S
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1253	3/5/2012	CHPQ01253-T0312DIFS	209.61	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	BRL	0.2	1	µg/L	JS
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.3	0.19	1	µg/L	S
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1254	3/5/2012	CHPQ01254-T0312DIFS	211.1	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1258A	3/14/2012	CHPQ0258A-T0312DIFS	132.2	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1259A	3/7/2012	CHPQ0259A-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	19	0.19	1	µg/L	S
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.8	0.2	1	µg/L	S
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW1259B	3/7/2012	CHPQ0259B-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	BRL	0.2	1	µg/L	JS
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	6.2	0.19	1	µg/L	S
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02MW2000B	3/14/2012	CHPQ0000B-T0312DIFS	122.35	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02OW0009C	3/5/2012	CHPQ0009C-T0312DIFS	154.15	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02OW0015C	3/7/2012	CHPQ0015C-T0312DIFS	153.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	14	0.19	1	µg/L	S
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.7	0.2	1	µg/L	S

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
02OW0016D	3/5/2012	CHPQ0016D-T0312DIFS	174.3	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	BRL	0.2	1	µg/L	JS
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
32MW2002	3/8/2012	CHPQ02002-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
32MW2003	3/8/2012	CHPQ02003-T0312DIFS	102.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	CHLOROFORM	1.1	0.2	1	µg/L	
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	tert-BUTYL METHYL ETHER	BRL	0.2	1	µg/L	J
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0015	4/17/2012	CHPW0015IG-A0412	260	N1	WG	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	tert-BUTYL METHYL ETHER	BRL	0.2	1	µg/L	J
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0016	4/17/2012	CHPW0016IG-A0412	197	N1	WG	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69IG0018	4/12/2012	CHPW0018IG-A0412	94.56	N1	WG	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69IG0018	4/12/2012	CHPW1018IG-A0412	94.56	FD1	WG	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1261	3/5/2012	CHPQ01261-T0312DIFS	159.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	12	0.19	1	µg/L	S
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.6	0.2	1	µg/L	S
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1262	3/7/2012	CHPQ01262-T0312DIFS	170.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.4	0.19	1	µg/L	S
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1264	3/5/2012	CHPQ01264-T0312DIFS	162.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.1	0.19	1	µg/L	S
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1265	3/7/2012	CHPQ01265-T0312DIFS	229.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1267	4/25/2012	CHPQ01267-T0312DIFS	149.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1268A	3/7/2012	CHPQ0268A-T0312DIFS	141.27	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	11	0.19	1	µg/L	S
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.1	0.2	1	µg/L	S
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1281	3/7/2012	CHPQ01281-T0312DIFS	197.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	4.8	0.19	1	µg/L	S
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.6	0.2	1	µg/L	S
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1282	3/7/2012	CHPQ01282-T0312DIFS	187.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	BRL	0.2	1	µg/L	JS
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	5.5	0.19	1	µg/L	S
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1.2	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1417	3/7/2012	CHPQ01417-T0312DIFS	147.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1422	3/8/2012	CHPQ01422-T0312DIFS	207.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	JS
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.9	0.2	1	µg/L	S
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1503A	3/14/2012	CHPQ0503A-T0312S	148.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1503B	3/14/2012	CHPQ0503B-T0312DIFS	90.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1504	4/17/2012	CHPR01504-T0312DIFS	189.9	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6.9	0.2	1	µg/L	S
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1506A	4/17/2012	CHPR0506A-T0312DIFS	237.3	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	78	0.2	1	µg/L	S
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	79	0.2	1	µg/L	S
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR1506B-T0312S	137.4	FD1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1506B	4/17/2012	CHPR0506B-T0312S	137.4	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	CHLOROFORM	0.5	0.25	0.5	µg/L	

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	1.6	0.25	0.5	µg/L	
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
69MW1507	3/1/2012	CHPQ01507-A0312DIF	152.4	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	15	0.2	1	µg/L	S
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1510A	3/2/2012	CHPR0510A-T0312S	173.6	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.9	0.2	1	µg/L	S
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1510B	3/2/2012	CHPR0510B-T0312DIFS	113.3	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	25	0.2	1	µg/L	S
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1514A	2/24/2012	CHPR0514A-T0312DIFS	285.6	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.9	0.2	1	µg/L	S
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1514B	4/20/2012	CHPR0514B-T0312S	164.75	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1516A	3/2/2012	CHPR0516A-T0312S	197.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1516B	3/2/2012	CHPR0516B-T0312S	152.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1517A	3/9/2012	CHPQ0517A-T0312DIFS	232.7	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1517B	3/9/2012	CHPQ0517B-T0312DIFS	153	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1522A	4/13/2012	CHPR0522A-T0312	322.3	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	10	0.2	1	µg/L	S
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1529	2/28/2012	CHPR01529-T0312DIFS	236.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1532A	4/4/2012	CHPR0532A-T0312DIFS	282.4	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1532B	4/4/2012	CHPR0532B-T0312DIFS	182.4	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	8.7	0.2	1	µg/L	S
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1534A	4/4/2012	CHPR0534A-T0312DIFS	284.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1536A	4/16/2012	CHPR0536A-T0312DIF	276	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
69MW1536B	4/16/2012	CHPR0536B-T0312DIF	176	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	8.2	0.2	1	µg/L	S
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1541	3/2/2012	CHPR01541-T0312DIFS	249.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1542	3/6/2012	CHPR01542-T0312DIF	222.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	1.4	0.2	1	µg/L	S
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1542	3/6/2012	CHPR01542-T0312DIFS	222.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIF	222.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	1.2	0.2	1	µg/L	S
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1542	9/6/2012	CHPR01542-S0912DIFS	222.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIF	277.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	4.8	0.2	1	µg/L	S
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1543	4/16/2012	CHPR01543-T0312DIFS	277.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69MW1545A	4/16/2012	CHPR0545A-T0312DIF	254.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	CHLOROFORM	2.2	0.2	1	µg/L	S
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
69MW1603A	4/16/2012	CHPR0603A-T0312DIFS	238.08	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
69SWDP01	4/11/2012	CHPV0DP01-A0412		N1	WS	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
80MW0001A	4/13/2012	CHPR0801A-T0312DIF	197.59	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
80MW0001B	4/13/2012	CHPR0801B-T0312DIF	172.77	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.011	0.005	0.009	µg/L	
80MW0002A	4/16/2012	CHPR0802A-T0312DIF	257.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	µg/L	J
80MW0002B	4/16/2012	CHPR1802B-T0312DIF	172.5	FD1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.019	0.005	0.009	µg/L	
80MW0002B	4/16/2012	CHPR0802B-T0312DIF	172.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.015	0.005	0.009	µg/L	
80MW0004A	4/16/2012	CHPR0804A-T0312DIF	285.44	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	µg/L	J
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	5.1	0.2	1	µg/L	S
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0004A	4/16/2012	CHPR0804A-T0312DIFS	285.44	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0004B	4/16/2012	CHPR0804B-T0312DIF	244.68	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.01	µg/L	J
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	BRL	0.2	1	µg/L	JS
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US

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Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
80MW0005A	4/17/2012	CHPR0805A-T0312DIFS	261.75	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	CHLOROFORM	1.2	0.2	1	µg/L	S
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0005B	4/17/2012	CHPR0805B-T0312DIFS	212.72	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0006A	3/6/2012	CHPR0806A-T0312DIF	261.92	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0006A	9/6/2012	CHPR0006A-S0912DIF	261.92	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
80MW0006B	3/6/2012	CHPR0806B-T0312DIF	221.92	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0006B	9/6/2012	CHPR0006B-S0912DIF	221.92	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0008A	4/16/2012	CHPR0808A-T0312DIF	251.9	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0012A	4/13/2012	CHPR0812A-T0312	283.14	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
80MW0012B	4/13/2012	CHPR0812B-T0312DIF	153.71	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0013A	4/13/2012	CHPR0813A-T0312DIF	272.64	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.011	0.005	0.009	µg/L	
80MW0013B	4/13/2012	CHPR0813B-T0312DIF	167.74	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0014A	2/24/2012	CHPR0814A-T0312DIF	201.56	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0015A	3/6/2012	CHPR0815A-T0312DIF	272.38	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	5	0.2	1	µg/L	S
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0015A	3/6/2012	CHPR0815A-T0312DIFS	272.38	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIF	272.38	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	4.6	0.2	1	µg/L	S
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0015A	9/21/2012	CHPR0015A-S0912DIFS	272.38	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIF	252.28	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	4.4	0.2	1	µg/L	S
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0015B	3/6/2012	CHPR0815B-T0312DIFS	252.28	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
80MW0015B	9/6/2012	CHPR0015B-S0912DIF	252.28	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	4.2	0.2	1	µg/L	S
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
80MW0015B	9/6/2012	CHPR0015B-S0912DIFS	252.28	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
80MW0015C	3/6/2012	CHPR0815C-T0312DIF	182.55	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.01	µg/L	U
80MW0015C	9/6/2012	CHPR0015C-S0912DIF	182.55	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.005	0.009	µg/L	U
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.9	0.19	1	µg/L	S
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0001	3/15/2012	CHPQ08101-Q0312S	173.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.9	0.19	1	µg/L	S
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0001	6/13/2012	CHPQ08101-Q0612S	173.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.6	0.19	1	µg/L	S
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0001	9/21/2012	CHPQ00001-Q0912S	173.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.3	0.19	1	µg/L	S
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0001	12/18/2012	CHPQ00001-Q1212S	173.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3	0.19	1	µg/L	S
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0002	3/15/2012	CHPQ08102-Q0312S	196	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.2	0.19	1	µg/L	S
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0002	7/11/2012	CHPQ08102-Q0612S	196	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.9	0.19	1	µg/L	S
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0002	9/21/2012	CHPQ00002-Q0912S	196	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.3	0.19	1	µg/L	S
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81EW0002	12/18/2012	CHPQ00002-Q1212S	196	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0003A	3/9/2012	CHPQ0003A-T0312DIFS	132.41	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	7	0.19	1	µg/L	S
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0003B	3/9/2012	CHPQ0003B-T0312DIFS	72.36	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.4	0.19	1	µg/L	S
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0004A	3/9/2012	CHPQ0004A-T0312DIFS	142.25	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0005A	3/9/2012	CHPQ0005A-T0312DIFS	182	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	8.8	0.19	1	µg/L	S
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0005B	3/9/2012	CHPQ0005B-T0312DIFS	157	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0006A	3/9/2012	CHPQ0006A-T0312DIFS	242.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0006B	3/9/2012	CHPQ0006B-T0312DIFS	172.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0007A	3/9/2012	CHPQ0007A-T0312DIFS	231.4	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0007B	3/9/2012	CHPQ0007B-T0312DIFS	101.6	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.4	0.2	1	µg/L	S
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0008B	3/8/2012	CHPQ0008B-T0312DIFS	203	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0010B	3/8/2012	CHPQ0010B-T0312DIFS	122.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.7	0.19	1	µg/L	S
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0011A	3/8/2012	CHPQ0011A-T0312DIFS	232.27	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	5.7	0.19	1	µg/L	S
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0011B	3/8/2012	CHPQ0011B-T0312DIFS	152.26	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0012A	3/8/2012	CHPQ0012A-T0312DIFS	202.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	BRL	0.25	0.5	µg/L	J
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	CHLOROFORM	BRL	0.25	0.5	µg/L	J
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	11	0.25	0.5	µg/L	
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0013A	3/1/2012	CHPQ0013A-A0312DIF	172.41	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	9	0.19	1	µg/L	S
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0013A	9/6/2012	CHPQ0013A-S0912DIFS	172.41	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	4.9	0.25	0.5	µg/L	
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	2.5	0.25	0.5	µg/L	
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	BRL	0.25	0.5	µg/L	J
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	CHLOROFORM	BRL	0.25	0.5	µg/L	J
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	23	0.5	1	µg/L	
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	BRL	0.25	0.5	µg/L	J
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0013B	3/1/2012	CHPQ0013B-A0312DIF	242.24	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	BRL	0.2	1	µg/L	JS
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	20	0.19	1	µg/L	S
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0013B	9/6/2012	CHPQ0013B-S0912DIFS	242.24	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0015A	3/8/2012	CHPQ0015A-T0312DIFS	251.94	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0015B	3/8/2012	CHPQ0015B-T0312DIFS	152.36	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0016B	3/8/2012	CHPQ0016B-T0312DIFS	131.7	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.1	0.19	1	µg/L	S
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0017B	3/8/2012	CHPQ0017B-T0312DIFS	122.69	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	0.8	0.25	0.5	µg/L	
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	BRL	0.25	0.5	µg/L	J
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	CHLOROFORM	BRL	0.25	0.5	µg/L	J
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	1.2	0.25	0.5	µg/L	
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018A	3/1/2012	CHPQ0018A-A0312DIF	220.5	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	CHLOROFORM	0.8	0.25	0.5	µg/L	
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	CHLOROFORM	0.8	0.25	0.5	µg/L	
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	2.3	0.25	0.5	µg/L	
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	2.3	0.25	0.5	µg/L	
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U

Attachment B
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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ0018B-A0312DIF	114.5	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	3/1/2012	CHPQ1018B-A0312DIF	114.5	FD1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0018B	9/6/2012	CHPQ0018B-S0912DIFS	114.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	CHLOROFORM	ND	0.25	0.5	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019A	3/1/2012	CHPQ0019A-A0312DIF	234.7	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0019A	9/6/2012	CHPQ0019A-S0912DIFS	234.7	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	CHLOROFORM	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019B	3/1/2012	CHPQ0019B-A0312DIF	143.75	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1,1,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1,1-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1,2,2-TETRACHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1,2-TRICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1-DICHLOROETHANE	ND	0.25	0.5	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,1-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2,3-TRICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2,4-TRICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2,4-TRIMETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2-DICHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,3-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,3-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	1,4-DICHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	2,2-DICHLOROPROPANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	2-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	4-CHLOROTOLUENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BROMOBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BROMODICHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BROMOFORM	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	BROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	CARBON TETRACHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	CHLOROBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	CHLOROETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	CHLOROFORM	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	CHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	DIBROMOCHLOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	DIBROMOMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	DICHLORODIFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	ETHYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	HEXACHLOROBUTADIENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	ISOPROPYLBENZENE (CUMENE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	M,P-XYLENE (SUM OF ISOMERS)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	METHYLENE CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	NAPHTHALENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	P-CYMENE (p-ISOPROPYLTOLUENE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	SEC-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	STYRENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	TETRACHLOROETHENE (PCE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	TOLUENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	TRICHLOROETHENE (TCE)	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	TRICHLOROFLUOROMETHANE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	VINYL CHLORIDE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	cis-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	cis-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	n-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	n-PROPYLBENZENE	ND	0.25	0.5	µg/L	U

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Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	t-BUTYLBENZENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	tert-BUTYL METHYL ETHER	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	trans-1,2-DICHLOROETHENE	ND	0.25	0.5	µg/L	U
81MW0019C	3/1/2012	CHPQ0019C-A0312DIF	72.58	N1	WG	E524.2	METHOD	trans-1,3-DICHLOROPROPENE	ND	0.25	0.5	µg/L	U
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
81MW0019C	9/6/2012	CHPQ0019C-S0912DIFS	72.58	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6.3	0.2	1	µg/L	S
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0001	3/15/2012	CHPR08201-Q0312S	277.1	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6.3	0.2	1	µg/L	S
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0001	6/13/2012	CHPR08201-Q0612S	277.1	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6.5	0.2	1	µg/L	S
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0001	10/17/2012	CHPR00001-Q0912S	277.1	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.4	0.2	1	µg/L	S
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0002	3/30/2012	CHPR08202-Q0312S	263.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.8	0.2	1	µg/L	S
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0002	6/13/2012	CHPR08202-Q0612S	263.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.8	0.2	1	µg/L	S
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0002	9/21/2012	CHPR00002-Q0912S	263.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	2.5	0.2	1	µg/L	S
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0002	12/18/2012	CHPR00002-Q1212S	263.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0003	3/15/2012	CHPR08203-Q0312S	275	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.4	0.2	1	µg/L	S
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0003	6/13/2012	CHPR08203-Q0612S	275	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.4	0.2	1	µg/L	S
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0003	9/21/2012	CHPR00003-Q0912S	275	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.5	0.2	1	µg/L	S
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82EW0003	12/18/2012	CHPR00003-Q1212S	275	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0003B	2/24/2012	CHPR0003B-T0312DIFS	172.3	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	BRL	0.2	1	µg/L	JS
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.1	0.2	1	µg/L	S
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0005A	2/28/2012	CHPR0005A-T0312DIFS	152.97	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6	0.2	1	µg/L	S
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0006A	2/28/2012	CHPR0006A-T0312DIFS	262.44	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	8.2	0.2	1	µg/L	S
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0006B	2/28/2012	CHPR0006B-T0312DIFS	147.44	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	19	0.2	1	µg/L	S
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0007A	2/28/2012	CHPR0007A-T0312DIFS	272.44	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	JS
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0007B	2/28/2012	CHPR0007B-T0312DIFS	167.55	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	14	0.2	1	µg/L	S
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0009A	2/28/2012	CHPR0009A-T0312DIFS	312.4	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	CHLOROFORM	1.4	0.2	1	µg/L	S
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0009B	2/28/2012	CHPR0009B-T0312DIFS	161.82	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	48	0.2	1	µg/L	S
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	45	0.2	1	µg/L	S
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82MW0010A	2/24/2012	CHPR0010A-T0312DIFS	344.37	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0010A	2/24/2012	CHPR1010A-T0312DIFS	344.37	FD1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	18	0.2	1	µg/L	S
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0010B	2/24/2012	CHPR0010B-T0312DIFS	242.88	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0011A	4/4/2012	CHPR0011A-T0312DIFS	341.75	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0011B	4/4/2012	CHPR0011B-T0312DIFS	221.01	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	23	0.2	1	µg/L	S
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0012A	4/16/2012	CHPR0012A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	13	0.2	1	µg/L	S
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0012B	4/16/2012	CHPR0012B-T0312DIFS	252.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0013B	4/4/2012	CHPR0013B-T0312DIF	212.5	N1	WG	E504.1	METHOD	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	BRL	0.005	0.009	µg/L	J
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0014A	4/16/2012	CHPR0014A-T0312DIFS	318.25	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0015A	3/6/2012	CHPR0015A-T0312DIFS	292.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	CHLOROFORM	1	0.2	1	µg/L	S
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0015B	3/6/2012	CHPR0015B-T0312DIFS	212.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0016A	4/17/2012	CHPR0016A-T0312S	252.63	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	CHLOROFORM	1.4	0.2	1	µg/L	S
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0016B	4/17/2012	CHPR0016B-T0312DIFS	211.96	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	14	0.2	1	µg/L	S

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0017A	4/16/2012	CHPR0017A-T0312DIFS	319.6	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0017B	4/16/2012	CHPR0017B-T0312DIFS	216.55	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	JS
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	13	0.2	1	µg/L	S
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0019A	3/6/2012	CHPR0019A-T0312DIFS	312.5	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0019B	3/6/2012	CHPR0019B-T0312DIFS	226.42	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	15	0.2	1	µg/L	S
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0020A	3/6/2012	CHPR0020A-T0312DIFS	330	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	6.8	0.2	1	µg/L	S
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0020B	3/6/2012	CHPR0020B-T0312DIFS	217.21	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	JS
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3	0.2	1	µg/L	S
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0021A	4/20/2012	CHPR0021A-T0312DIFS	255	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.6	0.2	1	µg/L	S
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0021A	9/6/2012	CHPR0021A-S0912DIFS	255	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	CHLOROFORM	1	0.2	1	µg/L	S
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0021B	4/20/2012	CHPR0021B-T0312DIFS	205	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	CHLOROFORM	1.2	0.2	1	µg/L	S
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0021B	9/6/2012	CHPR0021B-S0912DIFS	205	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	TRICHLOROETHENE (TCE)	3.6	0.2	1	µg/L	S
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	US
82MW0022A	4/17/2012	CHPR0022A-T0312DIFS	137.64	N1	WG	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	US
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	4	0.2	1	µg/L	
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	1/31/2012	CHTK01001-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	4.9	0.2	1	µg/L	
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	2/27/2012	CHTK01001-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.3	0.2	1	µg/L	

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	3/27/2012	CHTK01001-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	4.7	0.2	1	µg/L	
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	5/1/2012	CHTK01001-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	4.8	0.2	1	µg/L	
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	5/29/2012	CHTK01001-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.1	0.2	1	µg/L	
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	6/26/2012	CHTK01001-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.5	0.2	1	µg/L	
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	7/18/2012	CHTK01001-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.1	0.2	1	µg/L	
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	8/28/2012	CHTK01001-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	8	0.2	1	µg/L	
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	9/27/2012	CHTK01001-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	4.9	0.2	1	µg/L	
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	10/25/2012	CHTK01001-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	5.4	0.2	1	µg/L	
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	11/28/2012	CHTK01001-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	7.6	0.2	1	µg/L	
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01001	12/26/2012	CHTK01001-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.1	0.19	1	µg/L	
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	1/31/2012	CHTK01002-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3	0.19	1	µg/L	
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	2/27/2012	CHTK01002-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3.2	0.19	1	µg/L	
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	3/27/2012	CHTK01002-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.7	0.19	1	µg/L	
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	5/1/2012	CHTK01002-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	BRL	0.13	1	µg/L	J
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.7	0.19	1	µg/L	
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	5/29/2012	CHTK01002-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.9	0.19	1	µg/L	
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	6/26/2012	CHTK01002-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.7	0.19	1	µg/L	
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	7/18/2012	CHTK01002-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.8	0.19	1	µg/L	
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	8/28/2012	CHTK01002-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.4	0.19	1	µg/L	
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	9/27/2012	CHTK01002-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.1	0.19	1	µg/L	
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	10/25/2012	CHTK01002-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	2.5	0.19	1	µg/L	
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	11/28/2012	CHTK01002-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	3	0.19	1	µg/L	
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01002	12/26/2012	CHTK01002-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	1/31/2012	CHTK01003-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	2/27/2012	CHTK01003-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	3/27/2012	CHTK01003-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	5/1/2012	CHTK01003-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	5/29/2012	CHTK01003-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	6/26/2012	CHTK01003-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	7/18/2012	CHTK01003-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	8/28/2012	CHTK01003-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	9/27/2012	CHTK01003-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	10/25/2012	CHTK01003-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	11/28/2012	CHTK01003-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U

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Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01003	12/26/2012	CHTK01003-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.3	0.2	1	µg/L	
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	1/31/2012	CHTK01101-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	6/26/2012	CHTK01101-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	7/18/2012	CHTK01101-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	8/28/2012	CHTK01101-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	9/27/2012	CHTK01101-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	10/25/2012	CHTK01101-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	11/28/2012	CHTK01101-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.2	0.2	1	µg/L	
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01101	12/26/2012	CHTK01101-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	2/27/2012	CHTK01102-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	3/27/2012	CHTK01102-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	5/1/2012	CHTK01102-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.3	0.2	1	µg/L	
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01102	5/29/2012	CHTK01102-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	1/31/2012	CHTK01201-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	2/27/2012	CHTK01201-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.1	0.2	1	µg/L	
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	3/27/2012	CHTK01201-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	9/27/2012	CHTK01201-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	10/25/2012	CHTK01201-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.2	0.2	1	µg/L	
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01201	11/28/2012	CHTK01201-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	5/3/2012	CHTK01202-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	5/29/2012	CHTK01202-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	6/26/2012	CHTK01202-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	7/18/2012	CHTK01202-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.1	0.2	1	µg/L	
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	8/28/2012	CHTK01202-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01202	12/26/2012	CHTK01202-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1	0.2	1	µg/L	
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01302	1/31/2012	CHTK01302-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	1.3	0.2	1	µg/L	
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT01302	2/27/2012	CHTK01302-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	10/25/2012	CHTK02201-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	11/28/2012	CHTK02201-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02201	12/26/2012	CHTK02201-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	1/31/2012	CHTK02202-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	2/27/2012	CHTK02202-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	3/27/2012	CHTK02202-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	5/1/2012	CHTK02202-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	5/29/2012	CHTK02202-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	6/26/2012	CHTK02202-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	7/18/2012	CHTK02202-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1	0.19	1	µg/L	
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	8/28/2012	CHTK02202-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.3	0.19	1	µg/L	
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02202	9/27/2012	CHTK02202-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	9/27/2012	CHTK02301-M1012	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	10/25/2012	CHTK02301-M1112	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	11/28/2012	CHTK02301-M1212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02301	12/26/2012	CHTK02301-M0113	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	ND	0.19	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	1/31/2012	CHTK02302-M0212	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	2/27/2012	CHTK02302-M0312	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	3/27/2012	CHTK02302-M0412	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	5/1/2012	CHTK02302-M0512	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	5/29/2012	CHTK02302-M0612	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U

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Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	6/26/2012	CHTK02302-M0712	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U

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Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	BRL	0.19	1	µg/L	J
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	7/18/2012	CHTK02302-M0812	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,1-TRICHLOROETHANE	ND	0.18	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2,2-TETRACHLOROETHANE	ND	0.13	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,1,2-TRICHLOROETHANE	ND	0.11	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHANE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,1-DICHLOROETHENE	ND	0.13	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2,4-TRICHLOROBENZENE	ND	0.21	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMO-3-CHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ND	0.15	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROBENZENE	ND	0.16	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,2-DICHLOROPROPANE	ND	0.5	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,3-DICHLOROBENZENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	1,4-DICHLOROBENZENE	ND	0.19	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	BENZENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOCHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	BROMODICHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOFORM	ND	0.12	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	BROMOMETHANE	ND	0.5	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	CARBON TETRACHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROBENZENE	ND	0.17	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROETHANE	ND	0.5	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROFORM	BRL	0.2	1	µg/L	J
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	CHLOROMETHANE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	DIBROMOCHLOROMETHANE	ND	0.15	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	ETHYLBENZENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	M,P-XYLENE (SUM OF ISOMERS)	ND	0.4	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	METHYLENE CHLORIDE	ND	1	2	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	O-XYLENE (1,2-DIMETHYLBENZENE)	ND	0.2	1	µg/L	U

Attachment B
Analytical Laboratory Results, January - December 2012
Southwest Plumes 2012 Summary Letter Report

Location	Date	Sample ID	Depth	Type	Matrix	Test	Prep	Analyte	Result	DL	RL	Units	Qual
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	STYRENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	TETRACHLOROETHENE (PCE)	1.1	0.19	1	µg/L	
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	TOLUENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	TRICHLOROETHENE (TCE)	BRL	0.2	1	µg/L	J
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	VINYL CHLORIDE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	cis-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	tert-BUTYL METHYL ETHER	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,2-DICHLOROETHENE	ND	0.2	1	µg/L	U
85PLT02302	8/28/2012	CHTK02302-M0912	N/A	N1	WW	SW8260B	SW5030	trans-1,3-DICHLOROPROPENE	ND	0.1	1	µg/L	U

Data Source: AFCEC, February 2013, MMR-AFCEC Data Warehouse

Key:

BRL = below reporting limit
DL = detection limit
FD1 = field duplicate
JS = estimated value for screening analysis
N/A = not applicable
ND = nondetect
N1 = native sample
RL = reporting limit
S = screening analysis
U = undetected
US = undetected screening data
WG = groundwater
WS = surface water
WW = wastewater
µg/L = micrograms per liter

ATTACHMENT C

Southwest Plumes Project Notes

CS-21 2011 Remedial System Optimization Evaluation
420005-SPEIM-SWP-PRJNOT-003

Southwest Plumes 2012 Triennial SPEIM Data Presentation (January 2011 - April 2012)
437075-SPEIM-SWP-PRJNOT-001

Southwest Plumes 2012 Semiannual SPEIM Data Presentation
437075-SPEIM-SWP-PRJNOT-002

CH2MHILL	PROJECT NOTE	TASK ORDER 0300
		PROJECT NO. 420005
AFCEE **SPEIM/LTM/O&M** **Otis ANG Base, Massachusetts** **Contract FA8903-08-D-8769-0300**	**DOCUMENT CONTROL NUMBER:** **420005-SPEIM-SWP-PRJNOT-003** **CDRL B008**	PAGE 1 OF 5

Confirmation Of: ☒ Meeting ☐ Change Notice ☐ General Project Note	Date Held: 11 November 2011 Location: IRP Conference Room Date Issued: 21 June 2012 Recorded By: Jason Dalrymple
Subject: **CS-21 2011 REMEDIAL SYSTEM OPTIMIZATION EVALUATION** EPA OU# 09 –SWOU (CS21)	Issued By: Nigel Tindall CH2M HILL TECHNICAL SERVICES MANAGER

ITEM	REMARKS
1.0	**INTRODUCTION** This project note summarizes the optimization evaluation for the Chemical Spill-21 (CS-21) remedial system (Figure 1). The objective of the evaluation was to assess whether the CS-21 remedial system could be operated more efficiently while continuing to achieve the remedial goals of the system. Based on performance monitoring data collected at 82EW0004 between September 2006 and April 2010, it was evident the operation of 82EW0004 was not contributing to the cleanup of the plume. Low influent concentrations at 82EW0004 and a lack of contaminant mass in the area upgradient of 82EW0004 were indicators that the extraction well could be shut down while an optimization evaluation was performed for the remainder of the CS-21 remedial system (AFCEE 2011b). The data used to support this optimization evaluation were presented at the following Technical Update meetings: • 23 June 2010 – Southwest Plumes 2010 Annual System Performance and Ecological Impact Monitoring (SPEIM) Data Presentation (May 2009 – April 2010) (AFCEE 2011b) • 11 November 2011 – CS-21 Remedial System Optimization Evaluation (Attachment A) A summary of the optimization evaluation, including the results of an optimization modeling effort, was presented to the regulatory agencies during the 11 November 2011 Technical Update meeting (Attachment A). Groundwater transport model simulations were also presented, and are available upon request from the Air Force Center for Engineering and the Environment (AFCEE).
2.0	**BACKGROUND** The Southwest Plumes include the following groundwater plumes: CS-4, CS-20, CS-21, and Fuel Spill-29 (FS-29). The contaminant of concern (COC) for CS-21 is trichloroethene (TCE), which has a Maximum Contaminant Level (MCL) of 5 micrograms per liter (µg/L). The Southwest Plumes remedial system is designed to collectively remediate the CS-4, CS-20, CS-21, and FS-29 groundwater plumes. The contaminated groundwater is captured by extraction wells in each plume, treated in a centrally located treatment plant (the Hunter Avenue Treatment Facility [HATF]), and the treated water is returned to the aquifer through reinjection wells, an infiltration trench, and an infiltration gallery (Figure 1).

Distribution: AFCEE: Jon Davis, Rose Forbes, Bob Power, Admin. Record; EPA: Bob Lim;
MassDEP: Len Pinaud, Elliott Jacobs; CH2M HILL: Pat de Groot, Nigel Tindall, Jason Dalrymple, Doc. Control

ITEM	REMARKS
	Phase I of the Southwest Plumes system startup occurred with the CS-4 remedial system startup on 28 November 2005 and the CS-20 remedial system startup on 11 January 2006. Phase II of system startup occurred on 11 September 2006 with the startup of the CS-21 and FS-29 remedial components. As of November 2011, the Southwest Plumes remedial system was operating at a flow rate of 1,619 gallons per minute (gpm) (170 gpm for CS-4, 749 gpm for CS-20, 1,048 gpm for CS-21). This operational condition is referred to as 2010 Scenario 02. The FS-29 remedial system was shut down in September 2010 because it was no longer contributing to the cleanup of the FS-29 plume (AFCEE 2010a). The flow from the CS-4 and CS-20 extraction wells is combined, enters the HATF through a common influent line, and is treated through its own series of carbon vessels. Likewise, the flow from the CS-21 (and FS-29 when operational) extraction wells enters the plant through a common influent line and is treated through dedicated carbon trains. The treated water from the CS-4/CS-20 trains and the CS-21 train exits the HATF in a combined effluent line and is returned to the aquifer through six reinjection wells, an infiltration gallery, and an infiltration trench. Environmental investigation of the Southwest Plumes began in 1986. The Southwest Plumes SPEIM program began with Phase I of startup of the treatment system in 2005. This program was developed to monitor plume changes and to ensure the effective operation of the groundwater remediation systems; monitoring networks are also evaluated and optimized through the SPEIM program. The current approved Southwest Plumes SPEIM monitoring network, including analytical scope and methods, is presented in the *Comprehensive Long Term Monitoring Plan (CLTMP)*, which is available from the AFCEE. Note that all the analytical data collected in 2010 and 2011 for the Southwest Plumes SPEIM program were included in the *Southwest Plumes 2010 Summary Letter Report* (AFCEE 2010b) and the *Southwest Plumes 2011 Summary Letter Report* (AFCEE 2011a), respectively.
3.0	**SUMMARY OF RESULTS** An overview of the sampling history of CS-21 extraction well 82EW0004 and nearby monitoring wells was presented at the 23 June 2010 Technical Update meeting with the recommendation to shut the extraction well off while an optimization evaluation was conducted for the remainder of the CS-21 remedial system (AFCEE 2011b). The regulatory agencies agreed with that proposal. The results of the CS-21 remedial system optimization were presented at the 17 November 2011 Technical Update meeting, and are attached (**Attachment A**). The following provides a summary of groundwater modeling activities that were completed to assess the optimization of the operation of the CS-21 remedial system. A review of 2010 SPEIM data versus the 2006 plume shell indicated that the delineation of the plume had changed enough that a plume shell update was necessary for this optimization evaluation. The plume shell update was based primarily on the 2010 annual data set, but was supplemented with one-time sample results from four monitoring wells (69MW1532A, 82MW0006A, 82MW0020A, and 82MW0020B) and from eight direct push borings that were

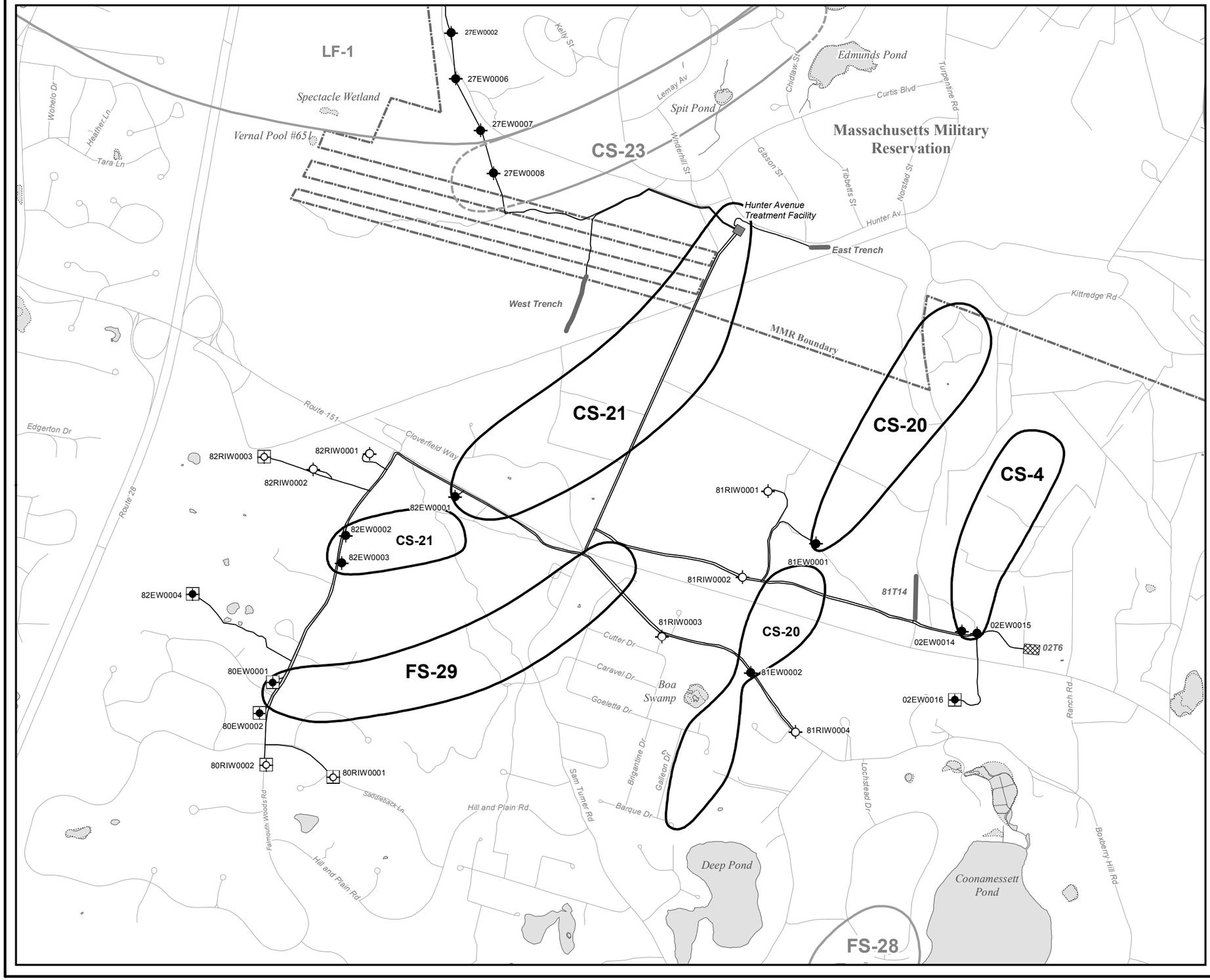
ITEM	REMARKS
	installed to better delineate the increasing concentration trend (i.e., 'hot spot') observed at monitoring well 69MW1506B. Results of the direct push data gap investigation indicated that the 'hot spot' is limited in extent (AFCEE 2010c). The 2010 plume shell development write-up and data set are provided in **Attachment B**. A review of the CS-21 model indicated that it was adequate for system optimization (accurate in predicting near field plume capture), but the far field fate and transport of the upgradient 'hot spot' appeared unrealistic in comparison to observed data (i.e., groundwater modeling predicted that the 'hot spot' attenuated faster than observed data suggested). Therefore, sensitivity testing was performed in an attempt to improve the fate and transport of the 'hot spot' near 69MW1506B. Transport simulations were created with a range of transport model parameter values (see **Attachment A** for details). However, this sensitivity testing exercise did not reveal a clear reason for the unrealistic 'hot spot' migration. Given that the CS-21 'hot spot' was found to be limited in extent (AFCEE 2010c) and over 4,000 feet upgradient of the remedial system, it is expected to naturally attenuate in the aquifer before it reaches the extraction wells. Therefore, this 'hot spot' is not expected to affect the remedial system operational lifetime or aquifer restoration timeframe. As a result, it was concluded that the model is sufficient for use in near field plume capture assessments through the system shut down date, and monitoring of the upgradient 'hot spot' would continue. The only change to the CS-21 model that resulted from this sensitivity testing exercise was the increase of the TCE half life from 34 years to 60 years. The TCE 60 year half life at CS-21 is now consistent with all other AFCEE TCE transport modeling that is conducted at the Massachusetts Military Reservation (MMR). Transport simulations were created for six different operational scenarios to evaluate the performance of the CS-21 remedial system (see **Attachment A** for details). In a manner consistent with that presented in the *Final CS-4 2010 Remedial System Optimization Technical Memorandum* (AFCEE 2011c) (which provides a template for remedial system optimization assessments conducted at MMR), a series of performance metrics were created for each operational scenario for comparison purposes (**Table 1**). AFCEE's preferred operational strategy was Scenario 4b, with a proposed reduction in flow of 100 gpm at 82EW0001 (from 500 gpm to 400 gpm), and a proposed reduction in flow of 174 gpm at 82EW0002 and 82EW0003 (from 274 gpm each to 100 gpm each). AFCEE chose Scenario 4b as the preferred operational strategy at CS-21 because it had the following: a similar estimated system shut down date, estimated restoration timeframe and mass removal estimate as the other scenarios tested; and lower estimated lifetime electrical costs and estimated carbon dioxide emissions (from electrical usage). The estimated system shut down date and restoration timeframe are also similar to those presented in the decision documents. A modeling-based hydraulic capture zone was presented for the Scenario 4b operational strategy (**Figure 2**). The capture zone figure indicates that the Scenario 4b operational strategy would hydraulically capture of the CS-21 plume.

ITEM	REMARKS
4.0	**SUMMARY AND CONCLUSIONS** The performance monitoring data collected at 82EW0004 between September 2006 and April 2010 indicated that the operation of 82EW0004 was not contributing significantly to the cleanup of the CS-21 plume. The combination of low COC influent concentrations at 82EW0004 and the absence of contaminant mass in the plume in the area upgradient of this extraction well are the primary lines of evidence that supported the shutdown of 82EW0004 in June 2010 (AFCEE 2011b). Monitoring data collected at and near 82EW0004 between June 2010 and November 2011 continue to indicate that TCE concentrations are below the MCL in that area, and support the decision to shut down 82EW0004. An optimization assessment was performed for the CS-21 remedial system in 2011 with the creation of transport modeling simulations and a hydraulic capture zone. Results of both modeling activities indicated that the CS-21 plume can be hydraulically captured via Scenario 4b flow rates. During the 11 November 2011 Technical Update meeting, AFCEE recommended that the CS-21 remedial system operate in accordance with Scenario 4b flow rates, which included a reduction in flow of 100 gpm at 82EW0001 (from 500 gpm to 400 gpm), and a reduction in flow of 174 gpm at 82EW0002 and 82EW0003 (from 274 gpm each to 100 gpm each).
5.0	**REGULATOR COMMENTS/ACTION ITEMS** At the 11 November 2011 Technical Update meeting, the U.S. Environmental Protection Agency (EPA) and Massachusetts Department of Environmental Protection (MassDEP) expressed their preference to implement Scenario 4a at CS-21 (i.e., keep the 82EW0001 flow rate at 500 gpm and reduce 82EW0002 and 82EW0003 to 100 gpm each) in order to capture TCE concentrations greater than the MCL at 82EW0001 versus relying on natural attenuation to reduce TCE concentrations below the MCL. The EPA, MassDEP, and AFCEE discussed the proposed flow rates further in follow-on e-mail correspondence and the EPA and MassDEP reiterated that they preferred to keep 82EW0001 at 500 gpm. AFCEE agreed to keep 82EW0001 at 500 gpm for the time being and reassess the flow rate at 82EW0001 in the future. The Scenario 4a flow rates (**Table 2**) were implemented at CS-21 on 03 February 2012, and are referred to as 2012 Scenario 01 flow rates. EPA requested a figure showing the Scenario 4a capture zone via an email on 13 June 2012, which has been added as **Figure 3**.
6.0	**REFERENCES** AFCEE. 2011a (March). *Southwest Plumes 2011 Summary Letter Report*. 420005-SPEIM-SWP-SLR-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA. _____. 2011b (September). Project Note. *Southwest Plumes 2010 Annual SPEIM Data Presentation.* 404929-SPEIM-SWP-PRJNOT-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.

ITEM	REMARKS
	_____. 2011c (September). *Final Chemical Spill-4 2010 Remedial System Optimization Technical Memorandum*. 404929-SPEIM-CS4-TECHMEM-002. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA. _____. 2010a (October). Project Note: *FS-29 Extraction Well 80EW0001 Interim Shut Down.* 404929-SPEIM-SWP-PRJNOT-002. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA. _____. 2010b (March). *Southwest Plumes 2010 Summary Letter Report*. 404929-SPEIM-SWP-SLR-001. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA. _____. 2010c (March). Project Note. *CS-21 Direct Push Data Presentation*. 389849-SPEIM-SWP-PRJNOT-004. Prepared by CH2M HILL for AFCEE/MMR, Installation Restoration Program, Otis Air National Guard Base, MA.
7.0	**CONCURRENCE** Concurrence with the implementation of flow scenario 2012 Scenario 01 (CS-21 Scenario 4a) at the Southwest Plumes treatment system is represented by the signatures below: Roberto L 6/20/12 EPA Representative 6/20/2012 MassDEP Representative 20 Jun 12 AFCEE Project Manager Note: The parties involved will retain the ability to modify the operating conditions based on field observations or other mutually agreeable technical justifications.

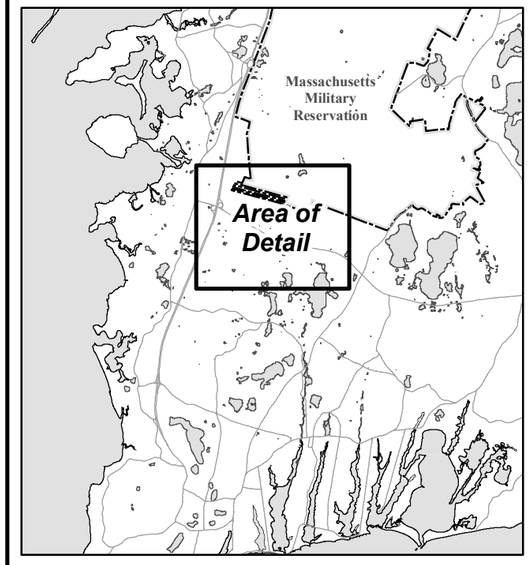
Attachments:
Figure 1. Southwest Plumes Remedial System and Hunter Avenue Treatment Facility
Figure 2. CS-21 Model-Predicted Capture Zones
Figure 3. CS-21 Scenario 4a Model-Predicted Capture Zones
Table 1. CS-21 Optimization Scenario Predicted Performance, Cost, Efficiency Metrics and Sustainability Considerations
Table 2. Southwest Plumes 2012 Scenario 01 Flow Rates
Attachment A. CS-21 Remedial System Optimization Evaluation Data Presentation, 17 November 2011 Technical Update Meeting
Attachment B. CS-21 2011 TCE Plume Shell Development

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Legend

- Extraction Well
- Reinjection Well
- Extraction Well (Off)
- Reinjection Well (Off)
- Infiltration Gallery
- Treatment Plant
- Infiltration Trench
- Massachusetts Military Reservation Boundary
- Southwest Plume Boundary
- Other AFCEE Plume Boundary (Dashed Where Inferred)
- Treatment System Piping



0 675 1,350 Feet

Data Source: AFCEE, March 2012, MMR-AFCEE Data Warehouse
MMR boundary from Massachusetts Air National Guard 2011

FIGURE 1

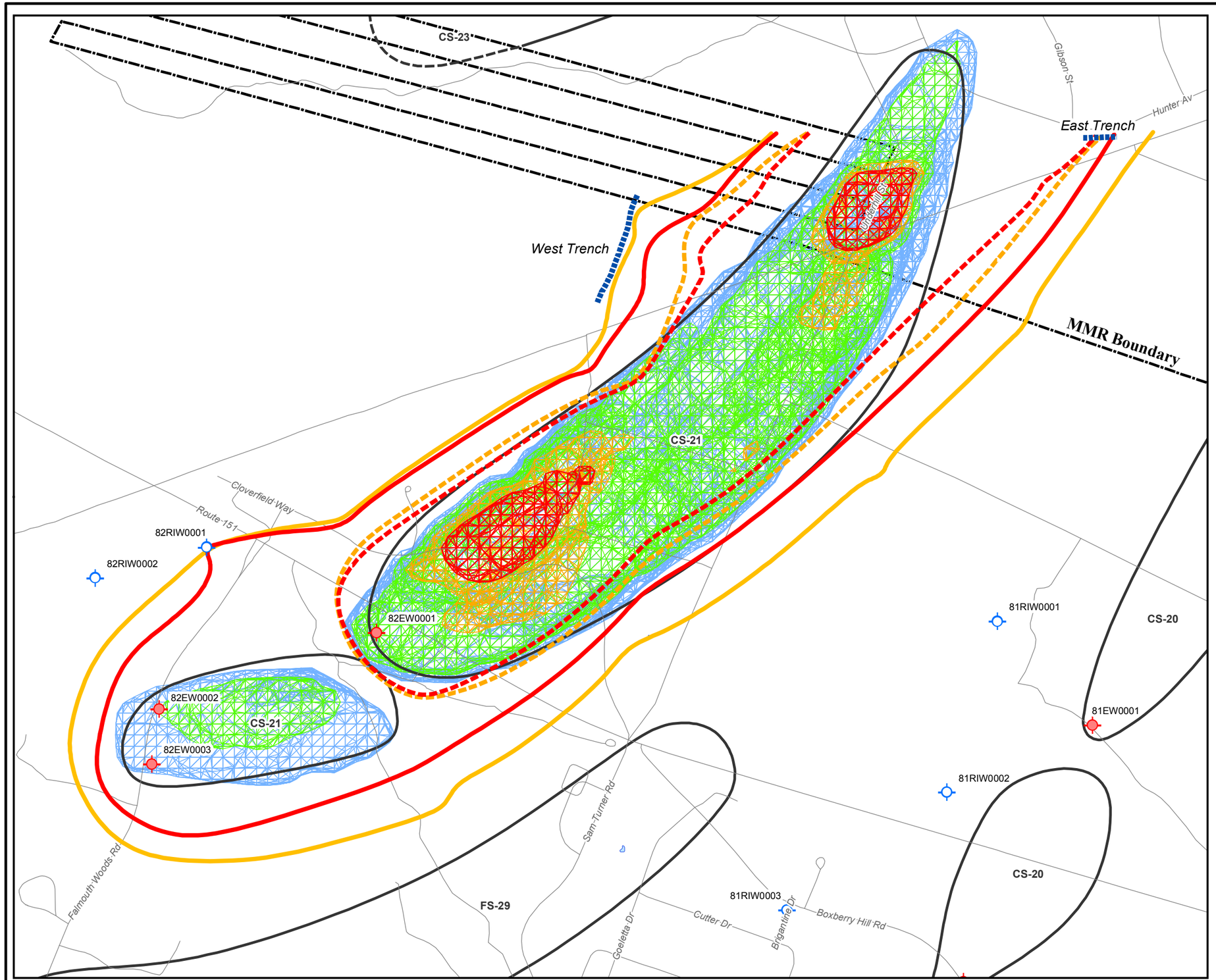
SOUTHWEST PLUMES REMEDIAL SYSTEM AND HUNTER AVENUE TREATMENT FACILITY

AFCEE - Massachusetts Military Reservation

CS-21 Remedial System Optimization Evaluation Project Note

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Legend

- Massachusetts Military Reservation Boundary
- Plume Boundary (Dashed Where Inferred)
- Infiltration Trench/Gallery
- Extraction Well (On)
- Reinjection Well (On)

CS-21 Model-Predicted Capture Zones

- 82EW0001, 82EW0002 and 82EW0003 Composite Capture Zone Current Operational Condition
- 82EW0001 Capture Zone Current Operational Condition

Current Operational Condition (2010Scenario02) Flow Rates: 82EW0001 (500 gpm), 82EW0002 (274 gpm), and 82EW0003 (274 gpm)

- 82EW0001, 82EW0002 and 82EW0003 Composite Capture Zone Proposed Operational Condition
- 82EW0001 Capture Zone Proposed Operational Condition

Proposed Operational Condition (Scenario4b) Flow Rates: 82EW0001 (400 gpm), 82EW0002 (100 gpm), and 82EW0003 (100 gpm)

Plume Shell

- 5 ≤ TCE < 10 µg/L
- 10 ≤ TCE < 20 µg/L
- 20 ≤ TCE < 30 µg/L
- TCE ≥ 30 µg/L

Maximum TCE concentration in the 2010 plume shell dataset is 98 µg/L

N

0 350 700 Feet

Data Source: AFCEE, May 2012, MMR-AFCEE Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

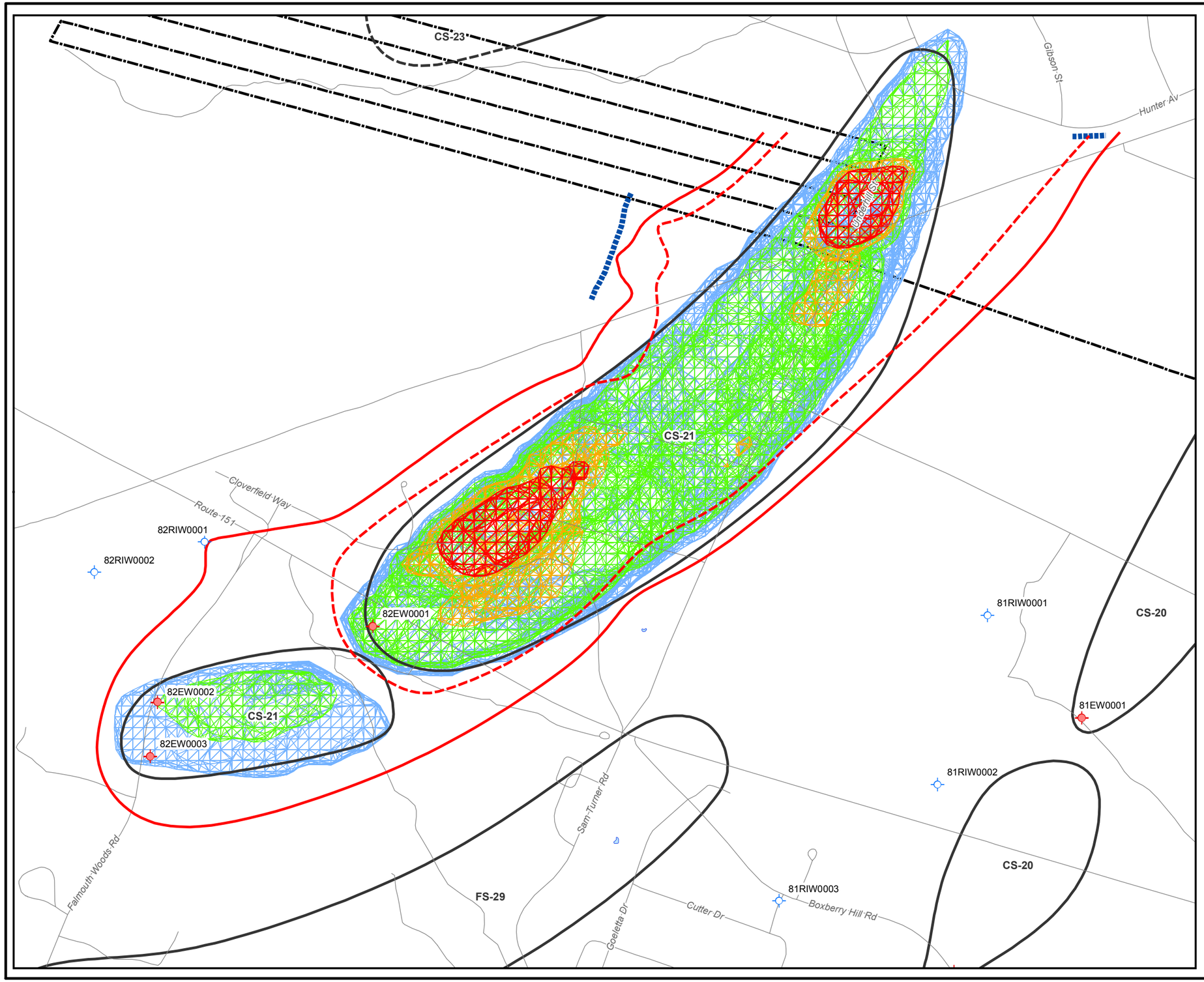
FIGURE 2

CS-21 MODEL-PREDICTED CAPTURE ZONES

AFCEE - Massachusetts Military Reservation
CS-21 Remedial System Optimization Evaluation Project Note

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Legend

- Massachusetts Military Reservation Boundary
- Plume Boundary (Dashed Where Inferred)
- Infiltration Trench/Gallery
- Extraction Well (On)
- Reinjection Well (On)

CS-21 Model-Predicted Capture Zones

- 82EW0001, 82EW0002 and 82EW0003 Composite Capture Zone Proposed Operational Condition
- 82EW0001 Capture Zone Proposed Operational Condition

2012 Scenario01 Flow Rates:
82EW0001 (500 gpm), 82EW0002 (100 gpm), and 82EW0003 (100 gpm)

Plume Shell

- 5 ≤ TCE < 10 µg/L
- 10 ≤ TCE < 20 µg/L
- 20 ≤ TCE < 30 µg/L
- TCE ≥ 30 µg/L

Maximum TCE concentration in the 2010 plume shell dataset is 98 µg/L

N

0 350 700 Feet

Data Source: AFCEE, June 2012, MMR-AFCEE Data Warehouse
MMR Boundary from Massachusetts Air National Guard

FIGURE 3

CS-21 SCENARIO 4a
MODEL-PREDICTED CAPTURE ZONES

AFCEE - Massachusetts Military Reservation

CS-21 Remedial System Optimization Evaluation Project Note

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Table 1
CS-21 Optimization Scenario Predicted Performance, Cost, Efficiency Metrics, and Sustainability Considerations
CS-21 2011 Remedial System Optimization Evaluation Project Note

Optimization Scenario Cost Estimates																							
	Flow					Transport Model Predictions											Cost Assessment						Sustainability
	82EW0001 (gpm)	82EW0002 (gpm)	82EW0003 (gpm)	82EW0004 (gpm)	Total (gpm)	System shut down date	Clean Year (< MCL)	Cumulative TCE Mass removed (lbs)	82EW0001 pump cost/year	82EW0002 pump cost/year	82EW0003 pump cost/year	82EW0004 pump cost/year	82EW0001 shut down date	82EW0002 shut down date	82EW0003 shut down date	82EW0004 shut down date	Estimated Pump Electrical Cost/Year[3]	Estimated Capital Cost	Estimated Ancillary Electrical Costs[4]	Estimated total electrical and capital cost through system shutdown date	Estimated Electricity Cost per MG treated[5]	Estimated Electricity Cost per pound of TCE removed[6]	Estimated Total CO_2 Emissions Through System Shutdown Date[7] (tons)
Base Case[1]	500	274	274	347	1395	2020	2024	124.4	$60,573	$33,370	$28,489	$34,275	2020	2019	2011	2010	$156,707	$0	N/A	N/A	N/A	N/A	N/A
Scenario 1	500	274	274	-	1048	2020	2024	124.1	$41,239	$24,263	$19,370	-	2020	2019	2011	-	$84,872	$0	$8,148	$704,447	$184	$5,676	2,831
Scenario 2e	500	225	-	-	725	2024	2024	129.3	$21,810	$10,028	-	-	2020	2024	-	-	$31,838	$0	$5,432	$423,676	$120	$3,277	1,703
Scenario 2f	400	170	-	-	570	2026	2026	121.4	$15,477	$7,381	-	-	2021	2026	-	-	$22,858	$0	$5,432	$361,675	$131	$2,979	1,453
Scenario 3a	500	-	225	-	725	2021	2028	122.4	$21,810	-	$6,884	-	2020	-	2021	-	$28,694	$0	$5,432	$350,860	$100	$2,867	1,410
Scenario 3d	400	-	170	-	570	2023	2028	118.2	$15,477	-	$5,119	-	2021	-	2023	-	$20,596	$0	$5,432	$301,978	$110	$2,555	1,213
Scenario 4a	500	100	100	-	700	2024	2024	127.9	$20,405	$2,602	$1,866	-	2020	2024	2022	-	$24,873	$0	$8,148	$360,646	$107	$2,820	1,449
Scenario 4b	400	100	100	-	600	2024	2026	120.5	$10,656	$2,274	$1,560	-	2021	2024	2023	-	$14,490	$0	$8,148	$272,540	$93	$2,262	1,095
Scenario 4d	400	80	70	-	550	2024	2026	119.4	$10,000	$1,429	$833	-	2021	2024	2024	-	$12,262	$0	$8,148	$247,592	$94	$2,074	995
Scenario 5[2]	-	-	-	-	-	2010	>2039	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
[1] Base Case represents the pumping condition that was operational at the start of this optimization assessment and is presented for cost comparison purposes. Extraction well 82EW0004 was turned off on 23 June 2010 with regulator concurrence while the optimization assessment for the remainder of the CS-21 remedial system was perforn
[2] Scenario 5 is presented for comparison purposes only, this pumping scenario would not meet the remedial goals of the syster
[3] Electrical cost assumptions: 85% motor efficiency, 65% booster pump motor efficiency, 95% uptime, $0.163/kWh cos
[4] Ancillary costs include: Control system components (VFDs, programmable logic controllers, control panel air conditioners, instrumentation, flow control valves, modems, etc.), vault cooling systems, and resistive losses from wires, relays, switches, et
[5] Limitations: doesn't account for a change in electricity costs
[6] Limitations: doesn't account for a change in electricity costs, or uncertainty in plume she
[7] CO_2 emissions are based on 50% of electricity used generated by the average mix of power sources in Massachusetts (http://www.metrixcentral.com/EmissionsCalculator/Emissions%20Factors%202004.pdf) and 50% of the energy used generated by fully renewable sources with no associated CO_2 emissions.

Key:
gpm = gallons per minute
lb = pounds
MCL = Maximum Contaminant Level
VFD = variable frequency drive

Table 2
Southwest Plumes 2012 Scenario 01 Flow Rates
CS-21 2011 Remedial System Optimization Evaluation Project Note

Location	2010 Scenario 02 Flow Rates (gpm)	2012 Scenario 01 (Scenario 4a) Flow Rates (gpm)
CS-4		
02EW0014	-85	-85
02EW0015	-85	-85
02EW0016	0	0
CS-20		
81EW0001	-400	-400
81EW0002	-349	-349
CS-21		
82EW0001	-500	-500
82EW0002	-274	-100
82EW0003	-274	-100
82EW0004	0	0
FS-29		
80EW0001	0	0
80EW0002	0	0
Total Extraction	**-1967**	**-1619**

Key:
gpm = gallons per minute

ATTACHMENT A

CS-21 Remedial System Optimization Evaluation
Data Presentation, 17 November 2011 Technical Update Meeting

CS-21 Remedial System Optimization Evaluation
17 November 2011 Technical Update Meeting

Overview

- Objective: Assess whether the CS-21 remedial system can be operated more efficiently while continuing to achieve the remedial goals of the system
- Review background, 2010 data, plume shell
- Sensitivity testing of model
- Results of transport simulations for various optimization scenarios
- Present preferred optimized operational scenario

CS-21 Remedial System Optimization Evaluation
17 November 2011 Technical Update Meeting

Background, Data Review and Plume Shell Update

- Shut down 82EW0004 on 23 June 2010 based on evaluation of existing data
- No need to assess alternate technologies and/or supplementing existing remedial system due to relatively short restoration timeframe
- Optimization approach: Model-based evaluation for various optimization scenarios
- Review of the 2010 data vs. the most recent (2006) plume shell indicated a plume shell update was necessary
- Plume shell update based primarily on 2010 annual data set, supplemented with:
 - one-time sample results from 4 wells (69MW1532A, 82MW0006A, 82MW0020A/B) to reduce uncertainty
 - data from 8 direct push vertical profile locations installed to better delineate 'hot spot' near 69MW1506B – area found to be limited in extent (Dec 09 Tech Meeting)

CS-21 Remedial System Optimization Evaluation
17 November 2011 Technical Update Meeting

CS-21 Model Parameter Assessment

- The groundwater model was adequate for system optimization (near field plume capture), but far field fate & transport of the upgradient hot spot appears unrealistic
- Adjusted transport model parameters as a sensitivity test
 - Increase Adsorbed Mass: Adjusted contaminant storage in aquifer by modifying Kd; ran simulations with 4x and 10x the adsorbed contaminant mass by increasing the modeled TOC values
 - Reduced Dispersivity: Ran simulations with one hundredth and one tenth the dispersivity values typically used in MMR models
 - Reduced Numerical Dispersion: 1) Increased the number of model layers from 27 to 39, 2) turned on cross-dispersion function, and 3) replaced non-detects around plume periphery with TCE values of 4.5 µg/L
 - Reduced Degradation: Increased TCE half life from 34 years to 60 years
- Sensitivity testing did not reveal clear reason for unrealistic hot spot migration
- The CS-21 hot spot is limited in extent and not expected to affect remedial system operational lifetime or aquifer restoration timeframe
- Continue to assess and optimize the remedial system operation through shut down date, and continue to monitor upgradient hot spot area

CS-21 Remedial System Optimization Evaluation
17 November 2011 Technical Update Meeting

Setup and Review of Transport Simulations and Capture Zone

- Evaluate the following operational scenarios for the existing system:
 - Base case, all four extraction wells operating at current pumping rates
 - 82EW0001, 82EW0002, and 82EW0003 at current pumping rates
 - 82EW0001 and 82EW0002 at optimized flow rates
 - 82EW0001 and 82EW0003 at optimized flow rates
 - 82EW0001, 82EW0002, and 82EW0003 at optimized flow rates
 - All extraction wells off
- Packering of extraction wells not considered due to vertical thickness of plume
- Metrics: operational lifetime, clean year, estimated electrical cost, sustainability, mass removed
- Review transport simulations with Table 1
- Review capture zone Figure 1

CS-21 Remedial System Optimization Evaluation
17 November 2011 Technical Update Meeting

Summary and Conclusions

- Comparison of base case and Scenario 1 confirm that the operation of 82EW0004 is no longer needed to clean up the CS-21 plume
- Scenario's 2, 3, and 4 have similar shutdown dates (2020 – 2026), clean years (2024-2028), and mass removal totals (Table 1)
- Scenario 5 results indicate that the CS-21 plume would travel beyond 82EW0004 and almost to Rt. 28 before attenuating
- Scenario 4b is the preferred operational scenario because it:
 - Provides hydraulic capture of the plume and meets RAOs of system (Figure 1)
 - Has a lower lifecycle cost and similar shutdown date, clean year, and estimated mass removal as other tested scenarios
 - Has similar shutdown date and clean year as the most recent modeling (Baseline SPEIM, 2025 and 2034 respectively) and ROD (2025 shut down date)

Recommendation

- Implement Scenario 4b flow rates at CS-21, no need to adjust monitoring network

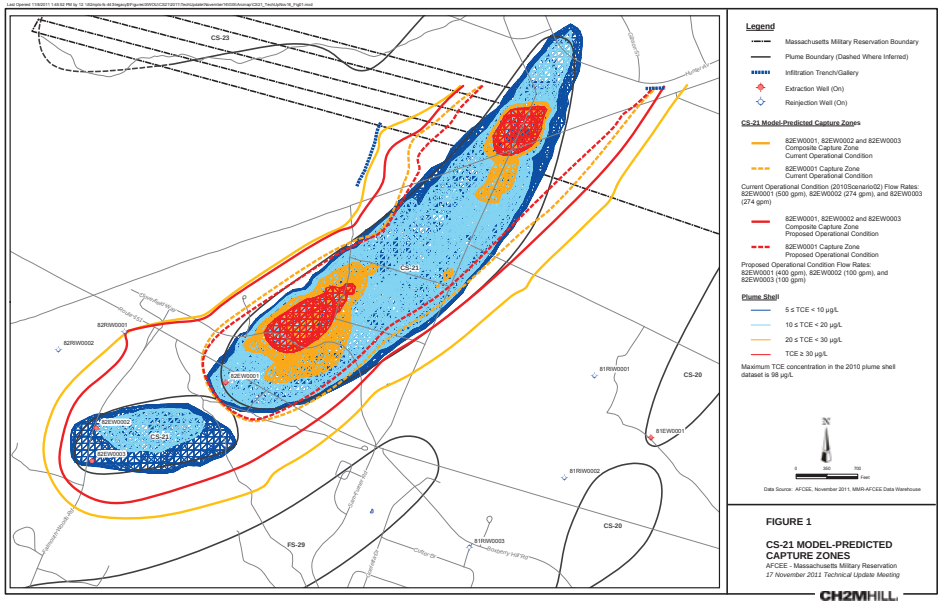


FIGURE 1

CS-21 MODEL-PREDICTED CAPTURE ZONES

AFCEE - Massachusetts Military Reservation

17 November 2011 Technical Update Meeting

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Table 1
CS-21 Optimization Scenario Predicted Performance, Cost, Efficiency Metrics, and Sustainability Considerations
17 November 2011 Technical Update Meeting

Optimization Scenario Cost Estimates																								
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Scenario 5[8]	-	-	-	-	-	2010	>2039	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:
[1] Base Case represents the pumping condition that was operational at the start of this optimization assessment and is presented for cost comparison purposes. Extraction well 82EW0004 was turned off on 23 June 2010 with regulator concurrence while the optimization assessment for the remainder of the CS-21 remedial system was performed.
[2] Scenario 5 is presented for comparison purposes only, this pumping scenario would not meet the remedial goals of the system
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[7] CO_2 emissions are based on 50% of electricity used generated by the average mix of power sources in Massachusetts (http://www.metrocentral.com/EmissionsCalculator/Emissions%20Factors%202004.pdf) and 50% of the energy used generated by fully renewable sources with no associated CO_2 emissions.

Key:
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ATTACHMENT B
CS-21 2011 TCE Plume Shell Development

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B1.2 INTERPOLATION OF CONTAMINANT CONCENTRATIONS.....B-1
B1.3 PLUME SHELL SCALING B-1
B1.4 PLUME SHELL MASKING.....B-2
B1.5 PLUME SHELL CONTAMINANT MASS AND VOLUME B-2
B1.6 PLUME SHELL UNCERTAINTY B-3

Figure

Figure B-1 CS-21 2010 TCE Plume Shell and Monitoring Locations

Table

Table B-1 CS-21 2010 TCE Plume Shell Data Set

B1.0 PLUME SHELL DEVELOPMENT

Contaminant plume shells are used to provide a mechanism for visualizing the distribution of dissolved phase groundwater contamination in three dimensions, for estimating the contaminant mass and volume of the plume, and for initializing the groundwater model for running contaminant transport simulations. This section discusses the development of a new trichloroethene (TCE) plume shell for the Chemical Spill-21 (CS-21) plume (**Figure B-1**).

B1.1 CONTAMINANT DATA SET

The data used to develop the CS-21 plume shell are listed in **Table B-1**, and include sample dates ranging from 02 April 2009 to 07 May 2010. The locations sampled for the plume shell data set are included on **Figure B-1**. The maximum contaminant concentrations for the TCE plume shell data set is 98 micrograms per liter (µg/L) at direct push location 82DP0004 in June 2009. Representative elevations for the chemical data were assumed to be the midpoints of the screens or sampling intervals from which the samples were collected. A zero concentration was substituted for all contaminant nondetects.

B1.2 INTERPOLATION OF CONTAMINANT CONCENTRATIONS

The contaminant concentrations from the sampling locations were interpolated to the plume shell grid nodes using kriging. The interpolated contaminant concentrations were contoured and visualized using wire-net isosurfaces. The kriging process was adjusted until the resulting plume shells fit the known data as closely as possible and were hydrologically plausible. The isosurface representing the 5.0 µg/L concentration (i.e., the Maximum Contaminant Level [MCL] for TCE) was considered to be the plume boundary for the TCE plume shell.

B1.3 PLUME SHELL SCALING

Kriging is a linear, unbiased, least-squares spatial interpolation method that uses a weighted-average estimator to estimate the value of a regionalized variable at a spatial

location. Since the estimated contaminant concentration at a particular location is derived from the weighted averaging of nearby concentration data, the maximum interpolated contaminant concentrations are generally lower than the maximum measured concentrations. To offset this tendency, the interpolated values are scaled by the ratio of the highest measured concentration to the highest interpolated value. This forces a match between the highest measured and interpolated values, which likely results in an overestimation of the total dissolved phase contaminant mass in the plume shell.

B1.4 PLUME SHELL MASKING

The plume shell was masked to eliminate artifacts of the kriging process that would otherwise produce hydraulically unreasonable extensions of a plume into areas with no data coverage. The mask is applied in plan view, and limits the maximum lateral extent of contamination present to a 5.0 µg/L concentration (i.e., the MCL for TCE). Outside the mask boundary, interpolated concentrations were set to zero.

B1.5 PLUME SHELL CONTAMINANT MASS AND VOLUME

The TCE plume shell for CS-21 is shown in **Figure B-1**. The approximate volume of contaminated groundwater at concentrations above the MCL, and the approximate dissolved phase contaminant mass in the plume shell (assuming an aquifer porosity of 30 percent) are 202.86 x 10^6 ft^3 and 132.46 lbs, respectively. For comparison purposes, the approximate volume and contaminant mass statistics, for the 2006 TCE plume shell (AFCEE 2008) were 265.03 x 10^6 ft^3 and 265.64 lbs, respectively.

For the TCE plume shell, the statistics presented above show that both the dissolved phase mass and volume of the 2010 plume shell are less than the dissolved phase mass and volume of the 2006 plume shell. The mass and volume decreases are likely attributable, primarily, to the continued operation of the CS-21 remedial system. Natural attenuation of TCE (primarily through the mechanism of dilution and dispersion) within the plume and improved characterization of the plume are also likely causes of some of the decreases in the observed TCE concentrations that led to decreases in the TCE plume shell mass and volume.

The most noticeable change in the two plume shell versions is that the 2010 plume shell has much less contaminant mass located downgradient of extraction well 82EW0001 than the 2006 plume shell did. This decrease in contaminant mass is represented by decreasing TCE concentrations in monitor wells 69MW1532A (35.3 µg/L in 2004 to nondetect [ND] in 2010), 82MW0012B (23 µg/L in 2006 to 5.4 µg/L in 2010), and 82MW0015B (4.6 µg/L in 2006 to ND in 2009). The CS-21 remedial system has successfully reduced the TCE concentrations in this area leaving a relatively small area of TCE concentrations above 10 µg/L located east of extraction well 82EW0002.

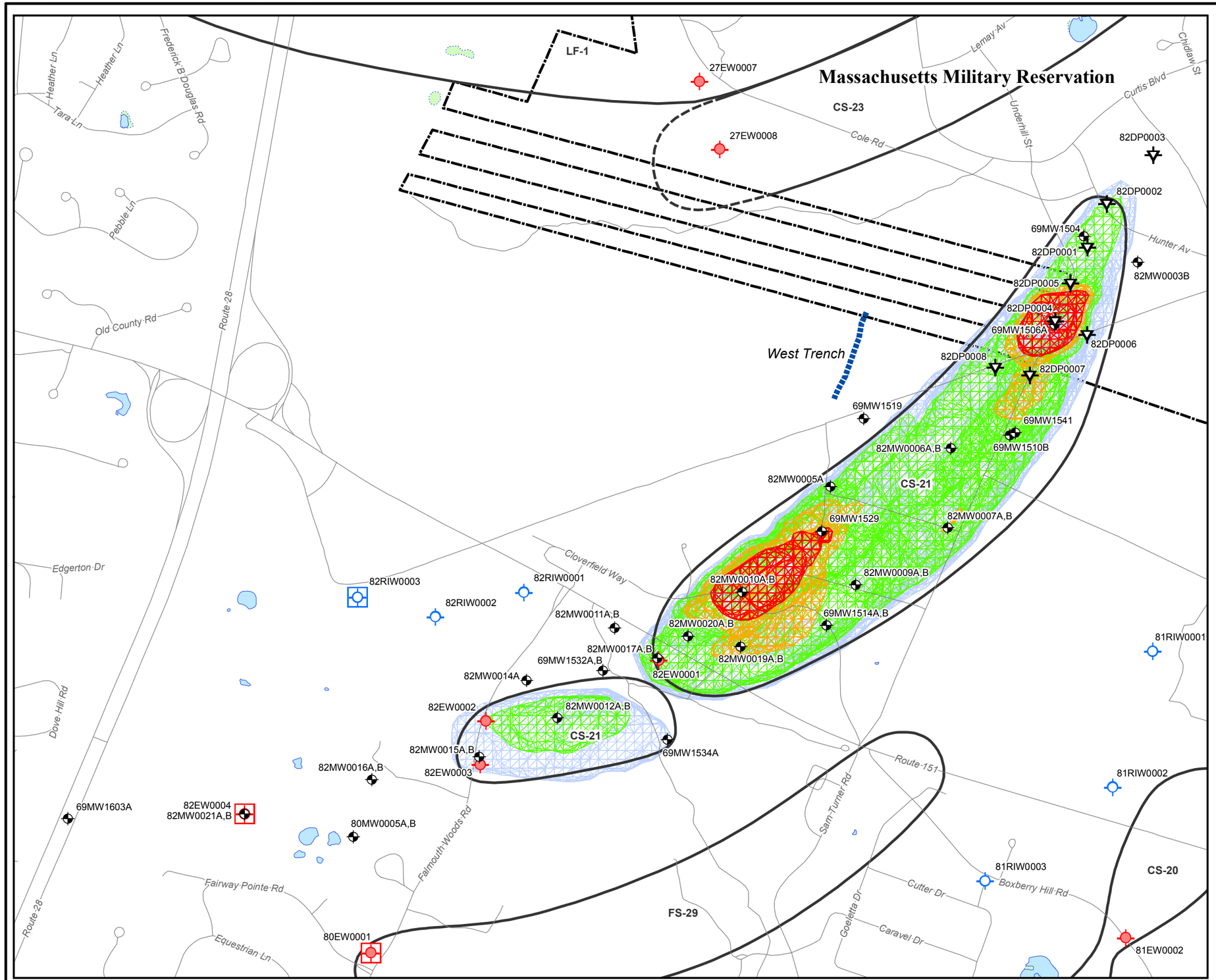
Another noticeable change is that the highest TCE concentrations in the core of the 2006 plume shell decreased in 2010, as represented by samples collected from monitoring wells 69MW1510B (16.2 µg/L in 2006 to 9.7 µg/L in 2009), 82MW0006B (59 µg/L in 2006 to 8.1 µg/L in 2009), 82MW0007A (36.9 µg/L in 2006 to 21 µg/L in 2009), and 82MW0007B (17 µg/L in 2006 to 1.3 µg/L in 2009). The 2006 concentrations have apparently migrated to the southwest toward extraction well 82EW0001 and have resulted in increasing concentrations in down gradient monitor wells 82MW0010A (33.9 µg/L in 2006 to 57 µg/L in 2010) and 82MW0019A (13.2 µg/L in 2006 to 22.9 µg/L in 2009) which are located just upgradient of extraction well 82EW0001, within its capture zone.

B1.6 PLUME SHELL UNCERTAINTY

The vertical and horizontal distribution of sampling locations often determines the level of uncertainty in the characterization of a plume. Many of the sample locations in the CS-21 plume are over 1,000 ft apart along the direction of groundwater flow and 500 ft apart perpendicular to the direction of flow. In addition, there are no monitoring well clusters in the CS-21 TCE plume that have more than two screens to monitor up to 165 ft thickness of plume. There are also few sample locations to delineate the lower boundary of the plume. The interaction of contaminant transport with low hydraulic conductivity aquifer materials makes the vertical distribution of contaminants even more difficult to delineate.

For the CS-21 2010 TCE plume shell, there is one noteworthy area of uncertainty. There is only one monitoring well cluster (82MW0006A,B) along a 2,000 ft interval in the core of the plume between monitoring well 69MW1529 and direct push location 82DP0008.

The result of this is that the TCE concentrations in samples collected from monitoring wells 82MW0006A,B have a significant effect on the total contaminant mass in the plume shell.



Legend

- Massachusetts Military Reservation Boundary
- Plume Boundary (Dashed Where Inferred)
- Infiltration Trench/Gallery
- Bog/Wetland
- Extraction Well (On)
- Extraction Well (Off)
- Reinjection Well (On)
- Reinjection Well (Off)
- Monitoring Well
- Direct Push Location

Plume Shell

- 5 ≤ TCE < 10 µg/L
- 10 ≤ TCE < 20 µg/L
- 20 ≤ TCE < 30 µg/L
- TCE ≥ 30 µg/L

Maximum TCE concentration in the 2010 plume shell dataset is 98 µg/L

N

0 450 900 Feet

Data Source: AFCEE, May 2012, MMR-AFCEE Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE B-1

CS-21 2010 TCE PLUME SHELL AND MONITORING LOCATIONS

AFCEE - Massachusetts Military Reservation

CS-21 Remedial System Optimization Evaluation Project Note

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Table B-1
CS-21 2011 TCE Plume Shell Data Set
CS-21 2011 Remedial System Optimization Evaluation Project Note

Location	Sample Date	Northing (ft)	Easting (ft)	Elevation (ft msl)	TCE (µg/L)
69MW1504	4/10/2009	237488	851907	-63.26	2.6
69MW1506A	4/10/2009	236738	851657	-112.94	3.6
69MW1510B	5/11/2009	235799	851279	10.35	9.7
69MW1514A	3/29/2010	234180	849720	-181.31	15
69MW1514B	3/29/2010	234180	849720	-60.46	7.2
69MW1519	5/5/2009	235941	850035	-32.34	0
69MW1529	5/5/2009	234983	849678	-127.02	21.7
69MW1532A	5/7/2010	233794	847820	-163.17	0
69MW1532B	4/29/2009	233794	847819	-63.17	4.7
69MW1534A	3/8/2010	233207	848367	-163.95	6.8
69MW1541	5/5/2009	235820	851324	-125.53	17.2
69MW1603A	3/5/2010	232537	843273	-140.83	0.19
80MW0005A	4/30/2009	232383	845698	-136.77	0
80MW0005B	4/30/2009	232383	845698	-87.74	0
82DP0001	4/2/2009	237381	851936	34.5	0
82DP0001	4/2/2009	237381	851936	24.5	0
82DP0001	4/2/2009	237381	851936	14.5	0
82DP0001	4/2/2009	237381	851936	4.5	0
82DP0001	4/2/2009	237381	851936	-5.5	0
82DP0001	4/2/2009	237381	851936	-15.5	0
82DP0001	4/3/2009	237381	851936	-25.5	0
82DP0001	4/3/2009	237381	851936	-35.5	0
82DP0001	4/4/2009	237381	851936	-55.5	1.3
82DP0001	4/4/2009	237381	851936	-65.5	1.5
82DP0001	4/4/2009	237381	851936	-75.5	1.8
82DP0001	4/4/2009	237381	851936	-85.5	18.8
82DP0002	4/7/2009	237754	852101	39.5	0
82DP0002	4/7/2009	237754	852101	29.5	0
82DP0002	4/7/2009	237754	852101	19.5	0
82DP0002	4/7/2009	237754	852101	9.5	0
82DP0002	4/7/2009	237754	852101	-0.5	0
82DP0002	4/7/2009	237754	852101	-10.5	0
82DP0002	4/8/2009	237754	852101	-20.5	0
82DP0002	4/8/2009	237754	852101	-30.5	0
82DP0002	4/8/2009	237754	852101	-40.5	0
82DP0002	4/8/2009	237754	852101	-50.5	2.5
82DP0002	4/9/2009	237754	852101	-60.5	5.1
82DP0003	6/19/2009	238165	852496	50.5	0
82DP0003	6/17/2009	238165	852496	40.5	0
82DP0003	6/17/2009	238165	852496	30.5	0
82DP0003	6/17/2009	238165	852496	20.5	0
82DP0003	6/17/2009	238165	852496	10.5	0
82DP0003	6/17/2009	238165	852496	0.5	0
82DP0003	6/18/2009	238165	852496	-9.5	0
82DP0003	6/18/2009	238165	852496	-19.5	0
82DP0003	6/18/2009	238165	852496	-29.5	0
82DP0003	6/18/2009	238165	852496	-39.5	0
82DP0003	6/19/2009	238165	852496	-48.25	0
82DP0004	6/23/2009	236756	851662	46.5	0
82DP0004	6/23/2009	236756	851662	36.5	0
82DP0004	6/23/2009	236756	851662	26.5	0
82DP0004	6/23/2009	236756	851662	16.5	0
82DP0004	6/24/2009	236756	851662	6.5	0
82DP0004	6/24/2009	236756	851662	-3.5	1.6
82DP0004	6/24/2009	236756	851662	-13.5	98
82DP0004	6/24/2009	236756	851662	-23.5	29
82DP0004	6/25/2009	236756	851662	-33.5	0
82DP0004	6/25/2009	236756	851662	-41.75	0
82DP0005	10/1/2009	237075	851793	44.5	0
82DP0005	10/1/2009	237075	851793	34.5	0
82DP0005	10/1/2009	237075	851793	24.5	0

Table B-1
CS-21 2011 TCE Plume Shell Data Set
CS-21 2011 Remedial System Optimization Evaluation Project Note

Location	Sample Date	Northing (ft)	Easting (ft)	Elevation (ft msl)	TCE (µg/L)
82DP0005	10/1/2009	237075	851793	14.5	0
82DP0005	10/1/2009	237075	851793	4.5	0
82DP0005	10/2/2009	237075	851793	-5.5	0
82DP0005	10/2/2009	237075	851793	-15.5	22
82DP0005	10/2/2009	237075	851793	-25.5	0
82DP0005	10/5/2009	237075	851793	-35.5	0
82DP0005	10/7/2009	237075	851793	-55.5	0
82DP0006	8/28/2009	236638	851933	42.5	0
82DP0006	8/31/2009	236638	851933	32.5	0
82DP0006	8/31/2009	236638	851933	22.5	0
82DP0006	8/31/2009	236638	851933	12.5	0
82DP0006	8/31/2009	236638	851933	2.5	0
82DP0006	8/31/2009	236638	851933	-7.5	0
82DP0006	9/1/2009	236638	851933	-17.5	4.2
82DP0006	9/1/2009	236638	851933	-27.5	1.8
82DP0006	9/3/2009	236638	851933	-67.5	2.1
82DP0006	9/9/2009	236638	851933	-77.5	8.6
82DP0006	9/14/2009	236638	851933	-97.5	3.4
82DP0007	9/18/2009	236296	851448	45.5	0
82DP0007	9/18/2009	236296	851448	35.5	0
82DP0007	9/21/2009	236296	851448	25.5	0
82DP0007	9/21/2009	236296	851448	15.5	0
82DP0007	9/21/2009	236296	851448	5.5	42
82DP0007	9/21/2009	236296	851448	-4.5	0
82DP0007	9/22/2009	236296	851448	-14.5	0
82DP0007	9/23/2009	236296	851448	-34.5	3
82DP0007	9/23/2009	236296	851448	-44.5	8.2
82DP0007	9/24/2009	236296	851448	-54.5	14
82DP0007	9/25/2009	236296	851448	-64.5	8.6
82DP0007	9/25/2009	236296	851448	-74.5	7.9
82DP0007	9/28/2009	236296	851448	-84.5	3.8
82DP0007	9/29/2009	236296	851448	-94.5	3.7
82DP0007	9/29/2009	236296	851448	-104.5	6.2
82DP0008	8/17/2009	236360	851154	41.5	0
82DP0008	8/18/2009	236360	851154	31.5	0
82DP0008	8/18/2009	236360	851154	21.5	0
82DP0008	8/18/2009	236360	851154	11.5	0
82DP0008	8/18/2009	236360	851154	1.5	7.2
82DP0008	8/18/2009	236360	851154	-8.5	1.1
82DP0008	8/19/2009	236360	851154	-18.5	12
82DP0008	8/24/2009	236360	851154	-58.5	3.6
82DP0008	8/25/2009	236360	851154	-68.5	21
82DP0008	8/25/2009	236360	851154	-78.5	7
82DP0008	8/25/2009	236360	851154	-88.5	5.6
82DP0008	8/26/2009	236360	851154	-97.5	4.2
82MW0003B	4/10/2009	237268	852362	-48.16	0
82MW0005A	5/5/2009	235358	849753	-38.03	5.2
82MW0006A	3/23/2010	235686	850774	-137.85	8.1
82MW0006B	7/1/2009	235686	850774	-22.85	8.1
82MW0007A	7/1/2009	235009	850751	-157.99	21
82MW0007B	7/1/2009	235009	850751	-53.10	1.3
82MW0009A	5/5/2009	234527	849967	-211.01	17.3
82MW0009B	5/5/2009	234527	849967	-60.43	0
82MW0010A	3/23/2010	234465	849003	-223.84	57
82MW0010B	3/23/2010	234464	849003	-122.35	15
82MW0011A	4/29/2009	234157	847918	-222.11	0.32
82MW0011B	4/29/2009	234156	847918	-101.37	0.25
82MW0012A	3/25/2010	233393	847433	-161.06	22
82MW0012B	3/25/2010	233393	847432	-101.06	5.4
82MW0014A	4/29/2009	233713	847169	-159.13	0
82MW0015A	4/29/2009	233063	846769	-169.66	0.24

Table B-1
CS-21 2011 TCE Plume Shell Data Set
CS-21 2011 Remedial System Optimization Evaluation Project Note

Location	Sample Date	Northing (ft)	Easting (ft)	Elevation (ft msl)	TCE (µg/L)
82MW0015B	5/11/2009	233064	846769	-89.66	0
82MW0016A	3/30/2010	232869	845856	-121.65	0
82MW0016B	3/30/2010	232869	845856	-80.98	0
82MW0017A	4/29/2009	233903	848284	-198.66	12.7
82MW0017B	4/29/2009	233904	848284	-95.61	0
82MW0019A	5/12/2009	234001	848990	-198.58	22.9
82MW0019B	5/12/2009	234001	848990	-112.50	0
82MW0020A	5/7/2010	234087	848542	-209.92	15
82MW0020B	5/7/2010	234087	848542	-97.13	9.2
82MW0021A	3/25/2010	232580	844773	-149.00	2.7
82MW0021B	3/25/2010	232580	844773	-99.00	0

Data Source: AFCEE, May 2012, MMR-AFCEE Data Warehouse.

Key:

ft feet

msl = mean sea level

TCE = trichloroethene

µg/L = micrograms per liter

CH2MHILL	PROJECT NOTE	TASK ORDER 0337
		PROJECT NO. 437075
AFCEC SPEIM/LTM Otis ANG Base, Massachusetts 4P08 FA8903-08-D-8769	DOCUMENT CONTROL NUMBER: 437075-SPEIM-SWP-PRJNOT-001 CDRL B010	PAGE 1 OF 5

Confirmation Of:	Date Held: 27 September 2012
☒ Meeting	Location: IRP Conference Room
☐ Change Notice	Date Issued: 28 December 2012
☐ General Project Note	Recorded By: Jason Dalrymple
Subject: **SOUTHWEST PLUMES 2012 TRIENNIAL SPEIM DATA PRESENTATION (JANUARY 2011 – APRIL 2012)** *EPA OU-09 SWOU & 19 OU-09B SWOU FS28/FS29 PLUMES*	Issued By: Nigel Tindall CH2M HILL PROJECT MANAGER

ITEM	REMARKS
1.0	**INTRODUCTION** This project note summarizes the Southwest Plumes data presentation which included data collected for the Southwest Plumes System Performance and Ecological Impact Monitoring (SPEIM) program between January 2011 and April 2012. The data presented included results from the following: • Triennial groundwater sampling (February-April 2012); • Quarterly extraction well sampling; • Monthly treatment plant influent sampling; and • Monthly extraction well flow rates. These data were presented to the regulators during the 27 September 2012 Technical Update meeting. The handout for the presentation included text slides, twelve figures, and two tables, and is included as **Attachment A**. In addition, the updated FS-29 Land Use Control (LUC) boundary (**Figures 1** and **2**), and further details regarding the CS-20 remedial system optimization approach (**Attachment B**) were presented at the 28 November 2012 Technical Update meeting.
2.0	**BACKGROUND** The Southwest Plumes include the following groundwater plumes: Chemical Spill-4 (CS-4), CS-20, CS-21, and Fuel Spill-29 (FS-29). The contaminants of concern (COCs) for the Southwest Plumes are as follows: • CS-4: trichloroethene (TCE), tetrachloroethene (PCE), 1,1,2,2-tetrachloroethane (1,1,2,2-TeCA), and ethylene dibromide (EDB) • CS-20: PCE • CS-21: TCE • FS-29: EDB and carbon tetrachloride (CCl_4)

Distribution: AFCEC: Jon Davis, Rose Forbes, Admin. Record; EPA: Bob Lim; MassDEP: Len Pinaud, Elliott Jacobs; CH2M HILL: Nigel Tindall, Jason Dalrymple, Doc. Control

ITEM	REMARKS
	The Southwest Plumes remedial system is designed to collectively remediate the CS-4, CS-20, CS-21, and FS-29 groundwater plumes. The contaminated groundwater is captured by extraction wells in each plume, treated in a centrally located treatment plant (the Hunter Avenue Treatment Facility [HATF]), and the treated water is returned to the aquifer through reinjection wells, an infiltration trench, and an infiltration gallery. The flow rate (2012 Scenario 01) for the Southwest Plumes remedial system is 1,619 gallons per minute (gpm). The combined flow from the CS-4 and CS-20 extraction wells (919 gpm) enters the HATF through a common influent line, and is treated through dedicated carbon trains. The flow from the CS-21 extraction wells (700 gpm) enters the HATF through a separate influent line and is treated through a separate carbon train from CS-4/CS-20. The treated water from the CS-4/CS-20 train and the CS-21 train exits the HATF in a combined effluent line and is returned to the aquifer through six reinjection wells, an infiltration gallery, and an infiltration trench. Phase I of the HATF startup consisted of the CS-4 and CS-20 remedial system components being brought online in December 2005. Phase II of system startup was completed in September 2006 when the CS-21 and FS-29 remedial system components began operation. Active treatment at FS-29 ceased with the last operational FS-29 extraction well (80EW0001) being shutdown on 20 September 2010. When operational, extracted groundwater from the FS-29 system was combined with CS-21 groundwater for treatment. The FS-29 plume is now in transition to long term monitoring. Analytical data for the Southwest Plumes have been collected through the SPEIM program since Phase I of startup of the treatment system in 2005. This program was developed to monitor plume changes and to ensure the effective operation of the groundwater remediation systems; monitoring networks are also evaluated and optimized through the SPEIM program. The current approved Southwest Plumes SPEIM monitoring network, including analytical scope and methods, is presented in the *Comprehensive Long Term Monitoring Plan (CLTMP)*, which is available upon request from the Air Force Civil Engineer Center (AFCEC). Note that all the analytical data collected in 2012 will be included in the *Southwest Plumes 2012 Summary Letter Report*, which is scheduled for submittal in March 2013.
3.0	**SUMMARY OF RESULTS** Analytical results were presented for selected monitoring wells in the four individual plumes using concentration trend plots (**Attachment A**). In addition, an overview of remedial system operations during the monitoring period was presented by providing extraction well and treatment plant influent concentrations, mass removal calculations, extraction well flow rates, and treatment plant electrical usage and related air emissions estimates. A summary of the main findings is as follows:

ITEM	REMARKS
	• Results from the 2012 triennial sample event provide evidence of decreasing concentrations throughout the CS-4 plume, which is consistent with the Conceptual Site Model (CSM). Cleanup at CS-4 is progressing as predicted. • Results from the 2012 triennial sample event indicate that influent concentrations at CS-20 extraction well 81EW0001 are low (<2 micrograms per liter [µg/L]). PCE concentrations remain above the MCL in one downgradient monitoring well cluster (81MW0013A,B), but concentrations above the MCL are expected to be short-lived in that area. • Results from the 2012 triennial sample event indicate that EDB concentrations are below the MMCL in all FS-29 monitoring wells sampled. CCl_4 concentrations are hovering around the MCL of 5 µg/L near 81EW0002, but are not widespread enough to define a plume. The FS-29 plume cleaned up faster than model predictions. • TCE concentrations are consistent with previous results in the upgradient portion of CS-21 at monitoring well 69MW1506B. Results from the area downgradient of extraction wells 82EW0002 and 82EW0003 indicate that the plume no longer exists in that area, which is consistent with the CSM.
4.0	**CONCLUSIONS** • The long term concentration trends for the Southwest Plumes monitoring wells are generally consistent with the CSM for the plumes; the notable exceptions are the PCE concentrations that are slightly higher than 2006 model predictions at the leading edge of CS-20, the low influent concentrations at CS-20 extraction well 81EW0001, and the faster than predicted attenuation of EDB in the FS-29 plume. • Treatment plant influent and extraction well concentrations have generally declined. • Groundwater, extraction well, and influent data indicate that the remedial goals of the system are being met and plume cleanup is progressing as expected. • Results indicate there is an opportunity to perform an optimization evaluation for the CS-20 remedial system to determine whether remedial system performance can be improved. • Results indicate that the monitoring network should be optimized.
5.0	**RECOMMENDATIONS** • Implement proposed changes to Southwest Plumes monitoring network (Table 1), including revisions to the proposed monitoring network as a result of MassDEP comments (see Section 6 and Attachment C).

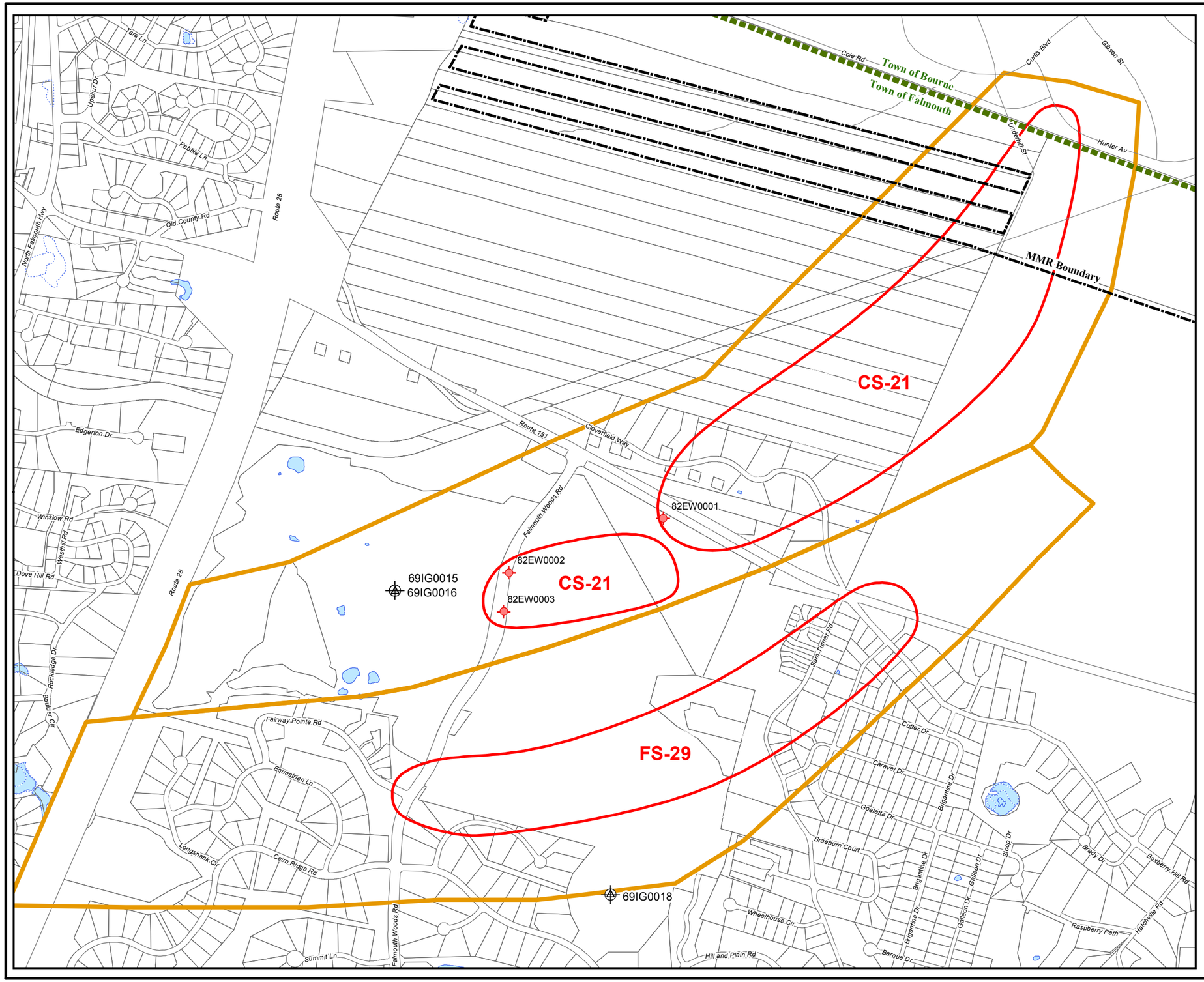
ITEM	REMARKS
	• sixteen monitoring wells are proposed to be dropped from the network; the frequency of monitoring is proposed to increase at three monitoring wells and decrease at twenty-six monitoring wells. • Revise the four plume boundaries as shown on Figures 2 through 5 of **Attachment A** based on the results of this comprehensive triennial sampling event. • Revise the LUC boundary for FS-29 as shown on **Figures 1** and **2** (attached). • Complete the CS-20 remedial system optimization evaluation. The results of the remedial system optimization evaluation will be presented at a future technical update meeting. • AFCEC will continue with all planned SPEIM activities for the upcoming year, which include the following: • an annual sampling event (March 2013); • a semiannual sampling event (September 2013); • routine monthly and quarterly treatment plant and extraction well sampling; and • a data presentation at a summer 2013 Technical Update meeting presenting results from the aforementioned data collection activities.
6.0	**REGULATOR COMMENTS/ACTION ITEMS** The regulatory agencies did not provide specific comments at the 27 September 2012 Technical Update meeting, but asked for additional time to review the proposed monitoring network. MassDEP provided questions and comments on the proposed monitoring network via e-mail on 15 October 2012. AFCEC provided a response to those questions/comments on 21 October 2012, and MassDEP provided their concurrence with AFCEC's responses on 07 December 2012 (**Attachment C**). The change to the proposed monitoring network from the AFCEC/MassDEP correspondence was to retain triennial sampling at CS-4 monitoring well 02MW1258A rather than eliminate it from the monitoring network (**Table 1**). AFCEC presented proposed changes to the FS-29 LUC boundary (resulting from the proposed change to the FS-29 plume boundary) at the 28 November 2012 follow-up Technical Update meeting (**Figures 1** and **2**). In addition, AFCEC provided additional details regarding the intended approach for the CS-20 remedial system optimization assessment (**Attachment B**). The regulatory agencies did not provide comments on the proposed FS-29 LUC boundary, and verbally agreed with the intended approach for the CS-20 remedial system optimization assessment. The regulatory agencies did not have any further comments on the 27 September 2012 Southwest Plumes Triennial Data Presentation.

CH2MHILL	PROJECT NOTE	TASK ORDER 0337
		PROJECT NO. 437075
AFCEC SPEIM/LTM Otis ANG Base, Massachusetts 4P08 FA8903-08-D-8769	DOCUMENT CONTROL NUMBER: 437075-SPEIM-SWP-PRJNOT-001 CDRL B010	PAGE 5 OF 5

ITEM	REMARKS
7.0	**CONCURRENCE** Concurrence with the proposed monitoring network revisions, updated plume boundaries, updated FS-29 LUC boundary, and the CS-20 remedial system optimization approach is represented by the signatures below: 12/27/12 — EPA Representative 12/27/12 — MassDEP Representative DAVIS.JONATHAN.S.1173946062 Digitally signed by DAVIS.JONATHAN.S.1173946062 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USAF, cn=DAVIS.JONATHAN.S.1173946062 Date: 2012.12.27 08:51:25 -05'00' AFCEE Project Manager Note: The parties involved will retain the ability to modify the SPEIM network, sampling frequencies, plume boundaries or LUC boundaries based on field observations or other mutually agreeable technical justifications.

Attachments:
Figure 1: Former LUC Boundaries for CS-21 and FS-29
Figure 2: New LUC Boundaries for CS-21 and FS-29
Table 1: Proposed Southwest Plumes Chemical Monitoring Network
Attachment A: Southwest Plumes Triennial SPEIM Data Presentation, 27 September 2012 Technical Update Meeting
Attachment B: CS-20 Remedial System Approach, 28 November 2012 Technical Update Meeting
Attachment C: MassDEP E-mailed Concurrence on Proposed Monitoring Network

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Legend

- Massachusetts Military Reservation Boundary
- Plume Boundary (Dashed Where Inferred)
- Town Boundary
- Land Use Control Area
- Irrigation Well
- Extraction Well

N

0 450 900

Feet

Data Source: AFCEC, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 1

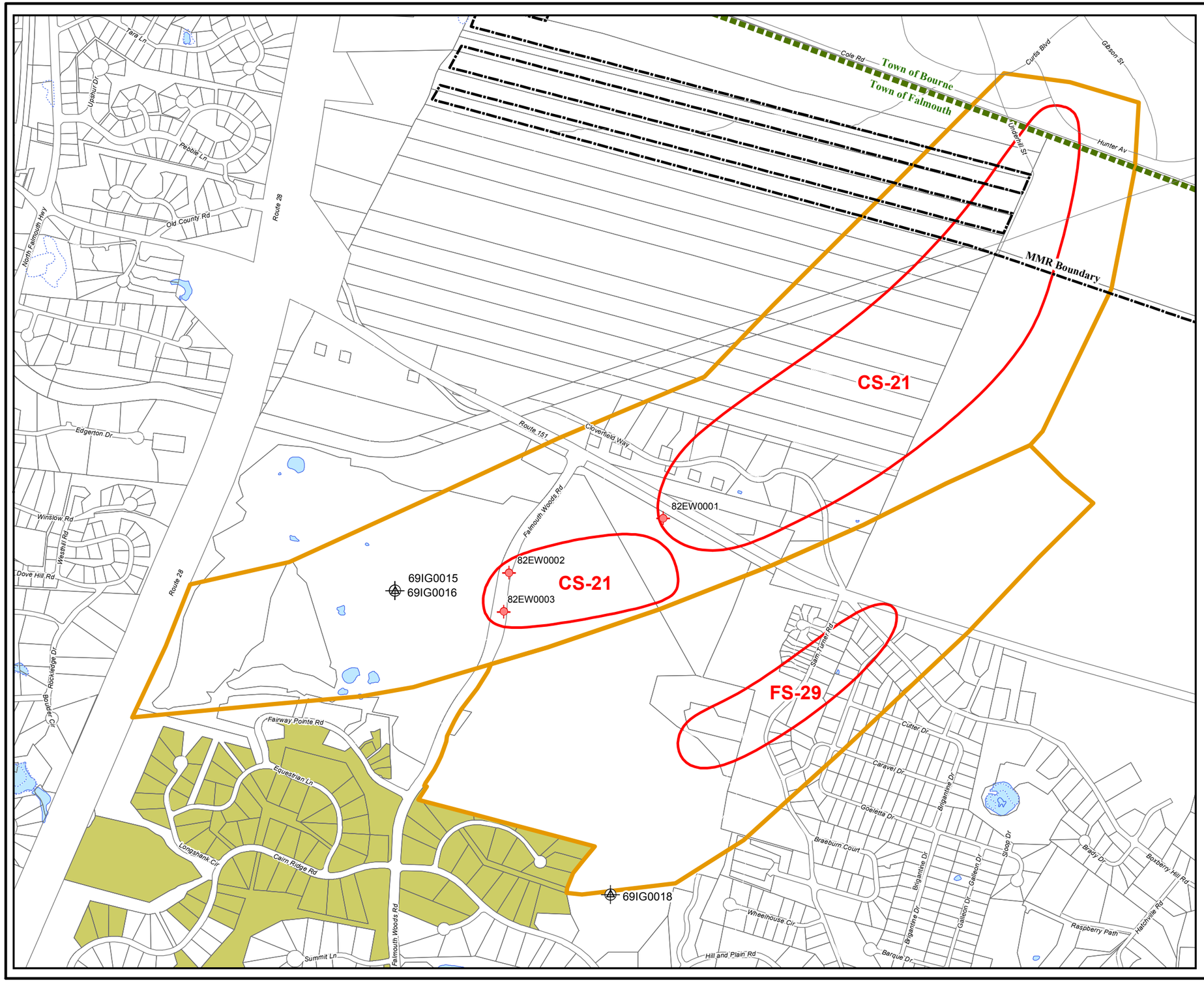
FORMER LUC BOUNDARIES FOR FOR CS-21 AND FS-29

AFCEC - Massachusetts Military Reservation

28 November 2012 Technical Update Meeting

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Legend

- Massachusetts Military Reservation Boundary
- Plume Boundary (Dashed Where Inferred)
- Town Boundary
- Land Use Control Area
- Parcel Removed from LUC Boundary
- Irrigation Well
- Extraction Well

N

0 450 900

Feet

Data Source: AFCEC, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 2

NEW LUC BOUNDARIES FOR FOR CS-21 AND FS-29

AFCEC - Massachusetts Military Reservation

28 November 2012 Technical Update Meeting

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Table 1
Proposed Southwest Plumes Chemical Monitoring Network
27 September 2012 Technical Update Meeting

Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
CS-4 Chemical Monitoring Network												
02EW0014						✓			Q		VOC, EDB	VOC
02EW0015						✓			Q		VOC, EDB	VOC
02MW0001D				✓					TE	NM	VOC	
02MW0006D				✓					TE		VOC	
02MW1205B	✓	✓							TE		VOC	
02MW1205C	✓	✓							A		VOC	
02MW1205D	✓	✓							TE		VOC	
02MW1210A				✓					TE		VOC	
02MW1251		✓							TE	A	VOC, EDB	VOC
02MW1252		✓	✓		✓				TE		VOC	
02MW1253		✓			✓				A	TE	VOC	
02MW1254				✓					A	TE	VOC	
02MW1258A	✓			✓					TE		VOC	
02MW1259A		✓							A	TE	VOC	
02MW1259B		✓							A		VOC	
02MW2000B	✓								A		VOC	
02OW0009C				✓					TE	NM	VOC	
02OW0015C		✓							A	TE	VOC	
02OW0016D		✓							A		VOC	
69MW1261		✓	✓						A		VOC	
69MW1262		✓							A		VOC	
69MW1264				✓					TE		VOC	
69MW1265				✓					A	TE	VOC	
69MW1267			✓		✓				A		VOC	
69MW1268A	✓								TE		VOC	
69MW1281				✓					A		VOC	
69MW1282				✓					A	TE	VOC	
69MW1417				✓					TE		VOC	
CS-20 Chemical Monitoring Network												
81EW0001						✓			Q		VOC	
81EW0002						✓			Q		VOC	
32MW2002				✓					TE		VOC	
32MW2003				✓					TE	NM	VOC	
69MW1422		✓							TE		VOC	
69MW1503A	✓			✓					TE	NM	VOC	
69MW1503B	✓			✓					TE		VOC	
69MW1507							✓		A		VOC[1]	
69MW1517A		✓							A		VOC	
69MW1517B		✓							A		VOC	
81MW0003A	✓	✓							TE		VOC	
81MW0003B	✓	✓							A		VOC	
81MW0004A	✓			✓					TE		VOC	
81MW0005A		✓							TE		VOC	
81MW0005B		✓							A		VOC	
81MW0006A				✓					A		VOC	
81MW0006B				✓					TE		VOC	
81MW0007A				✓					TE	NM	VOC	
81MW0007B				✓					A		VOC	
81MW0008B		✓		✓	✓				TE		VOC	
81MW0010B		✓		✓					TE		VOC	
81MW0011A		✓							A		VOC	
81MW0011B		✓							A		VOC	
81MW0012A				✓					TE		VOC	
81MW0013A			✓	✓			✓		SA		VOC[1]	
81MW0013B			✓	✓			✓		SA		VOC[1]	
81MW0015A			✓		✓				TE	NM	VOC	

Table 1
Proposed Southwest Plumes Chemical Monitoring Network
27 September 2012 Technical Update Meeting

Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
81MW0015B			✓		✓				TE		VOC	
81MW0016B				✓					TE		VOC	
81MW0017B				✓					A	TE	VOC	
81MW0018A			✓	✓			✓		A	TE	VOC[1]	
81MW0018B			✓	✓			✓		SA	A	VOC[1]	
81MW0019A			✓	✓			✓		SA		VOC[1]	
81MW0019B			✓	✓			✓		A		VOC[1]	
81MW0019C			✓	✓			✓		SA		VOC[1]	
CS-21 Chemical Monitoring Network												
82EW0001						✓			Q		VOC	
82EW0002						✓			Q		VOC	
82EW0003						✓			Q		VOC	
69IG0015								✓	A		VOC[1], EDB	
69IG0016								✓	A		VOC[1], EDB	
69MW1504	✓			✓					TE		VOC	
69MW1506A	✓								TE		VOC	
69MW1506B	✓								A		VOC	
69MW1510A		✓							TE	A	VOC	
69MW1510B		✓							TE		VOC	
69MW1514A				✓					A		VOC	
69MW1514B				✓					A	TE	VOC	
69MW1516A				✓					TE		VOC	
69MW1516B				✓					TE		VOC	
69MW1529		✓							TE		VOC	
69MW1532A		✓							TE		VOC	
69MW1532B		✓							TE		VOC	
69MW1534A				✓					A		VOC	
69MW1541		✓							TE		VOC	
69MW1603A			✓						A	TE	VOC	
80MW0005A				✓					TE	NM	VOC	
80MW0005B				✓					TE		VOC	
82MW0003B	✓			✓					TE		VOC	
82MW0005A		✓							TE		VOC	
82MW0006A		✓							TE		VOC	
82MW0006B		✓							TE	A	VOC	
82MW0007A		✓							A		VOC	
82MW0007B		✓							TE		VOC	
82MW0009A		✓							A		VOC	
82MW0009B		✓							TE	NM	VOC	
82MW0010A		✓							A		VOC	
82MW0010B		✓							A	TE	VOC	
82MW0011A				✓					TE		VOC	
82MW0011B				✓					TE		VOC	
82MW0012A		✓							A		VOC	
82MW0012B		✓							A		VOC	
82MW0014A				✓					TE	NM	VOC	
82MW0015A		✓			✓				TE	NM	VOC	
82MW0015B		✓			✓				TE	NM	VOC	
82MW0016A			✓						A		VOC	
82MW0016B			✓						A		VOC	
82MW0017A		✓			✓				TE	NM	VOC	
82MW0017B		✓			✓				TE	NM	VOC	
82MW0019A		✓							TE		VOC	
82MW0019B		✓							TE		VOC	
82MW0020A		✓			✓				TE		VOC	
82MW0020B		✓			✓				TE		VOC	
82MW0021A			✓		✓				SA	A	VOC	
82MW0021B			✓		✓				SA	TE	VOC	
82MW0022A	✓								A		VOC	

Table 1
Proposed Southwest Plumes Chemical Monitoring Network
27 September 2012 Technical Update Meeting

Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
FS-29 Chemical Monitoring Network												
69IG0018								✓	A		VOC[1], EDB	
69MW1522A	✓			✓					TE		EDB	
69MW1536A		✓							A	TE	EDB	
69MW1536B		✓							A	TE	EDB	
69MW1542		✓			✓				SA	A	VOC, EDB	EDB
69MW1543				✓					A		VOC, EDB	
69MW1545A			✓						A	TE	EDB	
80MW0001A	✓	✓							A		EDB	
80MW0001B	✓	✓							A		EDB	
80MW0002A		✓							A	TE	EDB	
80MW0002B		✓							A		EDB	
80MW0004A		✓							A		VOC, EDB	
80MW0004B		✓							A		EDB	
80MW0006A			✓		✓				SA	A	EDB	
80MW0006B			✓		✓				SA	TE	EDB	
80MW0008A			✓	✓					A	TE	EDB	
80MW0012A	✓			✓					TE	NM	EDB	
80MW0012B	✓			✓					TE		EDB	
80MW0013A		✓							A		EDB	
80MW0013B		✓							TE	NM	EDB	
80MW0014A			✓						A	NM	EDB	
80MW0015A			✓		✓				SA	A	VOC, EDB	
80MW0015B			✓		✓				SA	A	VOC, EDB	
80MW0015C			✓		✓				SA	TE	EDB	
82MW0013B				✓					A	TE	EDB	

Note:
Analytical sampling methods for the specified parameters: VOC (SW846 8260B); VOC[1] (EPA 524.2); EDB (EPA 504.1)

Key:
A = annually
CS = Chemical Spill
EDB = ethylene dibromide
FS = Fuel Spill
NM = not monitored
Q = quarterly
SA = semiannually
TE = triennially
VOC = volatile organic compound

ATTACHMENT A

Southwest Plumes Triennial SPEIM Data Presentation, 27 September 2012 Technical Update Meeting

Southwest Plumes Triennial SPEIM Data Presentation
27 September 2012 Technical Update Meeting

Overview

- Groundwater Sampling Results for Feb-April 2012 (locations shown on Figure 1)
 - 26 CS-4 monitoring wells sampled for VOCs, 1 monitoring well sampled for EDB (Figure 2)
 - 33 CS-20 monitoring wells sampled for VOCs (Figure 3)
 - 24 FS-29 monitoring wells sampled for EDB, 5 monitoring wells sampled for VOCs (Figure 4)
 - 45 CS-21 monitoring wells sampled for VOCs (Figure 5)
- Review concentration trend graphs and updated cross-sections on Figures 2-12
- ETI System Performance Monitoring
- Monitoring network optimization and new plume boundaries
- Conclusions and Recommendations

Southwest Plumes Triennial SPEIM Data Presentation
27 September 2012 Technical Update Meeting

CS-4/CS-20 Extraction Well and Treatment Plant Sampling

Location	Date	Laboratory Analyses			
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02
CS-4 Extraction Wells					
02EW0014	6/16/2011	5.4	1.4	BRL	ND
02EW0014	9/21/2011	5.3	1.5	BRL	ND
02EW0014	12/29/2011	5.4	1.8	BRL	ND
02EW0014	3/15/2012	4.6	1.4	BRL	ND
02EW0014	6/13/2012	4.4	1.2	BRL	ND
02EW0015	6/16/2011	4	BRL	BRL	ND
02EW0015	9/21/2011	3.5	BRL	BRL	ND
02EW0015	12/29/2011	4.2	BRL	BRL	ND
02EW0015	3/15/2012	3.2	BRL	BRL	ND
02EW0015	6/13/2012	3.2	BRL	BRL	ND
CS-20 Extraction Wells					
81EW0001	6/16/2011	2	BRL	ND	NS
81EW0001	9/21/2011	1.4	BRL	ND	
81EW0001	12/29/2011	2.2	ND	ND	NS
81EW0001	3/15/2012	1.9	BRL	ND	NS
81EW0001	6/13/2012	1.9	BRL	ND	NS
81EW0002	6/16/2011	4.8	ND	ND	NS
81EW0002	9/21/2011	4.3	BRL	ND	NS
81EW0002	12/29/2011	4	ND	ND	NS
81EW0002	3/15/2012	3	ND	ND	NS
81EW0002	7/11/2012	3.2	ND	ND	NS
CS-4 & CS-20 Combined Influent at Hunter Avenue Treatment Facility					
85PLT01002	5/25/2011	3.2	BRL	ND	NS
85PLT01002	6/27/2011	3.1	BRL	ND	NS
85PLT01002	7/29/2011	4.2	BRL	ND	NS
85PLT01002	8/31/2011	3.9	BRL	ND	NS
85PLT01002	9/27/2011	4	BRL	ND	NS
85PLT01002	10/27/2011	3.5	BRL	ND	NS
85PLT01002	11/28/2011	3.1	BRL	ND	NS
85PLT01002	12/28/2011	3.4	BRL	ND	NS
85PLT01002	1/31/2012	3.1	BRL	ND	NS
85PLT01002	2/27/2012	3	BRL	ND	NS
85PLT01002	3/27/2012	3.2	BRL	ND	NS
85PLT01002	5/1/2012	2.7	BRL	ND	NS
85PLT01002	5/29/2012	2.7	BRL	BRL	NS
85PLT01002	6/26/2012	2.9	BRL	ND	NS

Data Source: AFCEE, August 2012, MMR-AFCEE Data Warehouse.
COCs by plume are depicted in red

Southwest Plumes Triennial SPEIM Data Presentation
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CS-21 Extraction Well and Treatment Plant Sampling

Location	Date	Laboratory Analyses
		TCE (µg/L) MCL = 5
CS-21 Extraction Wells		
82EW0001	6/16/2011	**8.3**
82EW0001	9/21/2011	**7.9**
82EW0001	12/29/2011	**7.1**
82EW0001	3/15/2012	**6.3**
82EW0001	6/13/2012	**6.3**
82EW0002	6/16/2011	3.9
82EW0002	9/21/2011	3.5
82EW0002	12/29/2011	3.2
82EW0002	3/30/2012	3.4
82EW0002	6/13/2012	2.8
82EW0003	6/16/2011	BRL
82EW0003	9/21/2011	1.1
82EW0003	12/29/2011	BRL
82EW0003	3/15/2012	BRL
82EW0003	6/13/2012	1.4
CS-21 Influent at HATF		
85PLT01001	5/25/2011	4.5
85PLT01001	6/27/2011	4.6
85PLT01001	7/29/2011	5
85PLT01001	8/31/2011	4.3
85PLT01001	9/27/2011	4.8
85PLT01001	10/27/2011	4.3
85PLT01001	11/28/2011	4.2
85PLT01001	12/28/2011	4.3
85PLT01001	1/31/2012	4
85PLT01001	2/27/2012	4.9
85PLT01001	3/27/2012	**5.3**
85PLT01001	5/1/2012	4.7
85PLT01001	5/29/2012	4.8
85PLT01001	6/26/2012	**5.1**

Data Source: AFCEE, August 2012, MMR-AFCEE Data Warehouse.
Bold values indicate MCL exceedances

Southwest Plumes Triennial SPEIM Data Presentation
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	CS-4 Extraction Well Flow Rates (gpm)		CS-20 Extraction Well Flow Rates (gpm)		CS-4/CS-20 Influent Flow Rates (gpm)
	02EW0014	02EW0015	81EW0001	81EW0002	85PLT01002
Average Flow Rate (gpm)	80	79	249	209	626
Optimized Flow Rate (gpm) (2010 Scenario 02)	85	85	400	349	919
Percent of Optimized Design Rate	94	93	62	60	68

Data Source: AFCEE, August 2012, MMR-AFCEE Data Warehouse.

Notes:

Any downtime due to routine and non-routine operations and maintenance activities is included in the average flow rates.

Downtime due to communication failures, VFD faults, a bad motor, and for flow testing.

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	CS-21 Extraction Well Flow Rates (gpm)			CS-21 Influent Flow Rates (gpm)
	82EW0001	82EW0002	82EW0003	85PLT01001
Average Flow Rate (gpm)	445	259	257	959
Optimized Design Flow Rate (gpm) (2010 Scenario 02)	500	274	274	1048
Percent of Optimized Design Rate	89	95	94	91

Data Source: AFCEE, August 2012, MMR-AFCEE Data Warehouse.

Notes:

Any downtime due to routine and non-routine operations and maintenance activities is included in the average flow rates.

CS-21 flow rates were optimized on 03 February 2012; flow was reduced at 82EW0002 and 82EW0003 to 100 gpm each.

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HATF CS-4/CS-20 Mass Removal

	PCE	TCE	1,1,2,2-TeCA	EDB	Total COC Mass Removed
Mass removed (lbs) during period (Jan 11 - Dec 11)	9.2	1.4	0.0	0.0	10.6
Mass removed (lbs) since startup (Jan 06 - Dec 11)	108.1	11.1	1.2	0.003	120.3

HATF CS-21/FS-29 Mass Removal

	TCE	CCl_4	EDB	Total COC Mass Removed
Mass removed (lbs) during period (Jan 11 - Dec 11)	19.3	0.0	0.0	19.3
Mass removed (lbs) since startup (Sep 06 - Dec 11)	141.7	9.2	0.002	150.9

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HATF Remedial System Operation

– CS-4/CS-20 GAC trains (Jan 2011 – Dec 2011):
 - Approximately 325 million gallons of groundwater water treated
 - Two carbon exchanges

– CS-21 GAC trains (Jan 2011 – Dec 2011):
 - Approximately 505 million gallons of groundwater water treated
 - Four carbon exchanges

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Southwest Plumes Remedial Systems Electrical Consumption and Associated Air Emissions

		1/1/2011 to 12/31/2011	System Startup (12/2006) to 12/31/2011
Volume of Groundwater Treated (billion gallons)		0.8	7.2
Groundwater COC Mass Removal (pounds)		29.9	271.3
Electrical Usage (MWh)		1,058	12,463
Estimated Air Emissions[1] (based on electrical usage)	CO_2 (tons)	693	9,650
	NOx (lbs)	1,492	16,369
	PM-10 (lbs)	85	838
	SO_2 (lbs)	3,978	30,590
	VOCs (lbs)	52	857
Estimated Reduction in Air Emissions due to Green Power Purchases[2]	CO_2 (tons)	341	2,255
	NOx (lbs)	733	4,304
	PM-10 (lbs)	42	214
	SO_2 (lbs)	1,955	9,133
	VOCs (lbs)	26	165
Estimated Reduction in Air Emissions due to MMR Wind Turbine Operation[3]	CO_2 (tons)	327	524
	NOx (lbs)	703	1129
	PM-10 (lbs)	40	65
	SO_2 (lbs)	1,875	3011
	VOCs (lbs)	25	39
Estimated Total Air Emissions with Green Power Purchases and MMR Wind Turbine Operation	CO_2 (tons)	**26**	**6,870**
	NOx (lbs)	**55**	**10,936**
	PM-10 (lbs)	**3**	**559**
	SO_2 (lbs)	**148**	**18,446**
	VOCs (lbs)	**2**	**652**

Notes:
1) The estimated air emissions presented in this table are based on the assumption that until 4/30/2009, the power used to operate the MMR remedial systems was provided by the Mirant Canal Station power plant in Sandwich, MA. This power plant primarily produced electricity generated by the combustion of fuel oil and has been off-line since 5/1/2009. Starting on 5/1/2009, air emissions are based on electricity generated by the average mix of power sources in Massachusetts. Air emissions were calculated using MMR utility data from AFCEE's Metrix 4 Utility Accounting Software.
2) Emissions offset by purchases of electricity from renewable sources beginning 7/1/2008.
3) Emissions offset by operation of AFCEE-owned wind turbine beginning on 12/2/2009 (Wind I) and 11/1/2011 (Wind II).

Southwest Plumes Triennial SPEIM Data Presentation
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Triennial Groundwater Monitoring Summary

– CS-4 (Figures 2 and 8): Decreasing concentrations throughout plume. Cleanup progressing as predicted. Results are consistent with CSM.

– CS-20 (Figures 3 and 9): 81EW0001 influent concentrations are low (<2 µg/L). PCE concentrations above the MCL in one leading edge well cluster (81MW0013A/B), above MCL concentrations are expected to be short-lived.

– FS-29 (Figures 4 and 10): EDB concentrations below MMCL in all monitoring wells sampled (consistent with 2011 results, one MMCL exceedance in 2010, two in 2009). CCl_4 concentrations hovering around the MCL of 5 µg/L near 81EW0002; however, CCl_4 concentrations are stable (not advancing).

– CS-21 (Figures 5, 11, and 12): TCE concentrations consistent with last sampling event at upgradient monitoring well 69MW1506B. Results downgradient of 82EW0002/3 provide continued evidence that plume no longer exists in that area. All other results consistent with CSM.

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Conclusions

- Long term COC concentration trends for the Southwest Plumes monitoring wells are generally consistent with the CSM for the plumes; notable exceptions:
 – PCE concentrations greater than 2006 model-predictions (10-15 µg/L) in one CS-20 leading edge monitoring well screen (81MW0013B at 23 µg/L)
 – low influent concentrations at 81EW0001 (< 2 µg/L)
 – the FS-29 plume attenuating faster (2011) than predicted by the groundwater model (2028)
- Southwest Plumes monitoring network was optimized and plume boundaries were updated (Figures 2-5) to reflect results of this triennial sampling event
 – Proposed network (Table 1) will provide data on an appropriate frequency for the plumes as they exist now, based on historical data trends (Table 2)
- Treatment plant influent and extraction well concentrations generally declined
- Groundwater, extraction well, and influent data indicate that the remedial goals of the system are being met, plume cleanup is progressing as expected at CS-4 and CS-21, FS-29 cleaned up faster than predicted

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Conclusions

- SPEIM data indicate an opportunity to optimize the CS-20 remedial system exists
 – Direct push drilling was unsuccessful in achieving target depths to collect data for an optimization evaluation for CS-20
 – Flow test data collected at 81EW0001 in 2011/2012 for optimization evaluation
 – Plume shell will be updated with 2012 groundwater monitoring data
 – Remedial system will be optimized to most efficient operation possible while maintaining hydraulic capture of plume
 – Assess overall reinjection strategy for the Southwest Plumes

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Recommendations

- Implement optimized Southwest Plumes monitoring network and new plume boundaries based on results of this triennial monitoring event
- Complete CS-20 remedial system optimization evaluations, present results as they become available
- Continue with all planned SPEIM activities for the upcoming year:
 – Perform semiannual (September 2012) and annual (March 2013) sampling events
 – Perform routine monthly and quarterly plant and EW sampling
 – Present sampling results at Technical Update meetings when they are available
 – Southwest Plumes monitoring network will be optimized based on results of the 2013 annual sampling event

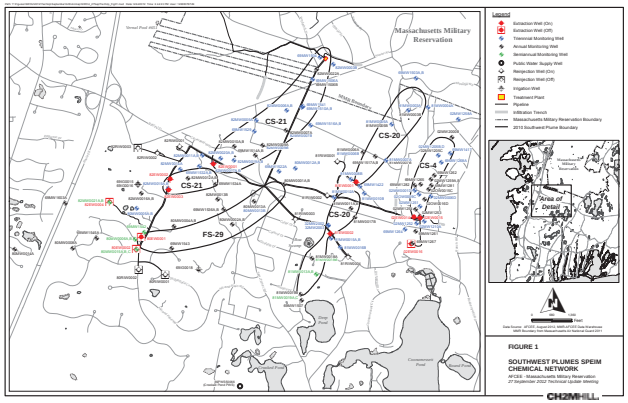


FIGURE 1

SOUTHWEST PLUMES SPEIM CHEMICAL NETWORK

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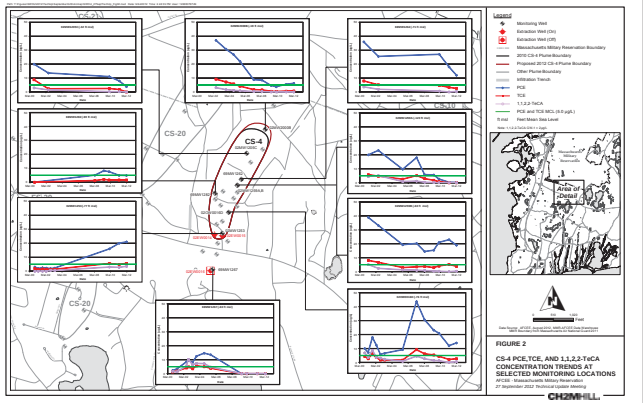


FIGURE 2

CS-4 PCE,TCE, AND 1,1,2,2-TeCA CONCENTRATION TRENDS AT SELECTED MONITORING LOCATIONS

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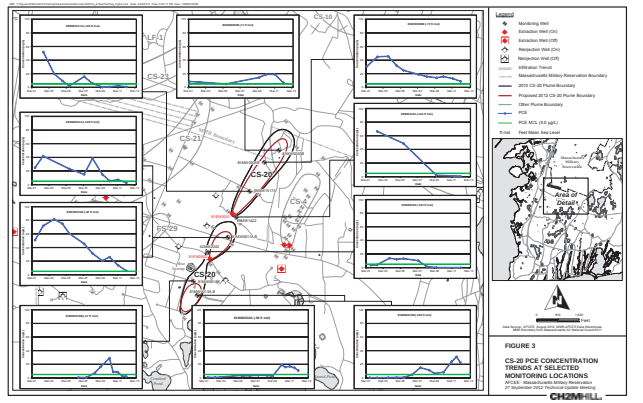


FIGURE 3

CS-20 PCE CONCENTRATION TRENDS AT SELECTED MONITORING LOCATIONS

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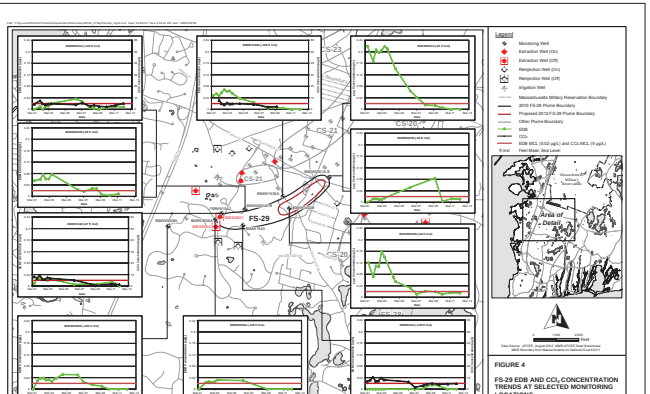


FIGURE 4

FS-29 EDB AND CCl_4 CONCENTRATION TRENDS AT SELECTED MONITORING LOCATIONS

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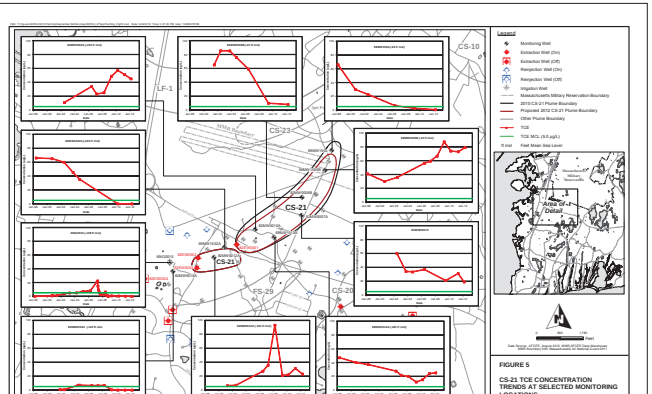


FIGURE 5

CS-21 TCE CONCENTRATION TRENDS AT SELECTED MONITORING LOCATIONS

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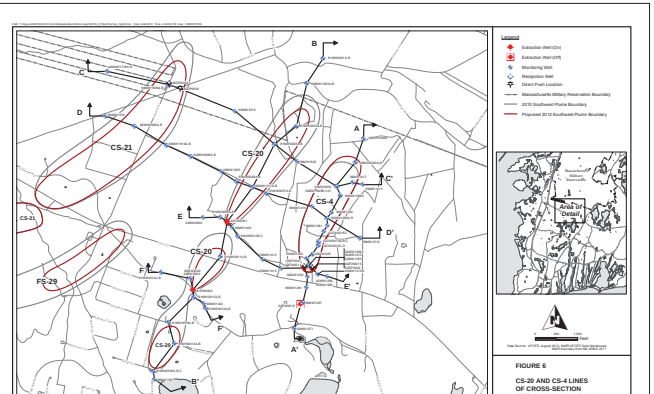


FIGURE 6

CS-20 AND CS-4 LINES OF CROSS-SECTION

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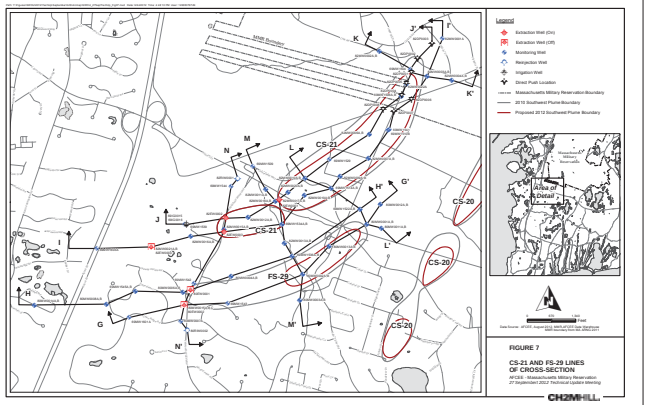


FIGURE 7

CS-21 AND FS-29 LINES OF CROSS-SECTION

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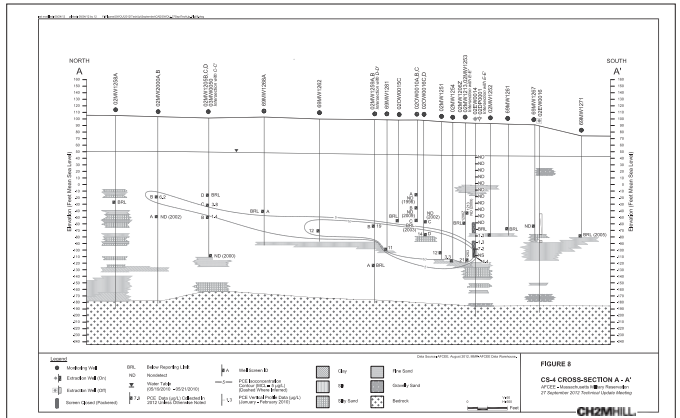


FIGURE 8

CS-4 CROSS-SECTION A - A'

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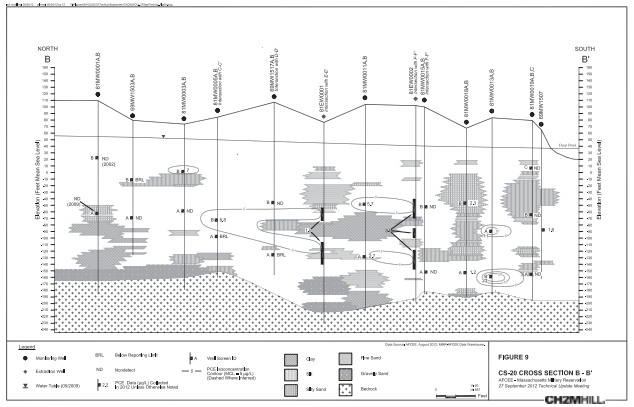


FIGURE 9

CS-20 CROSS SECTION B - B'

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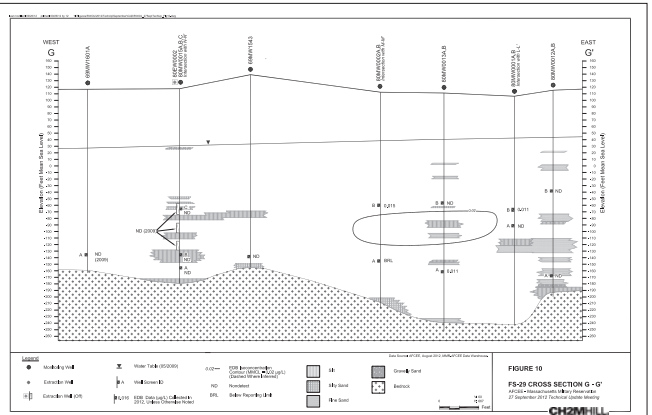


FIGURE 10

FS-29 CROSS SECTION G - G'

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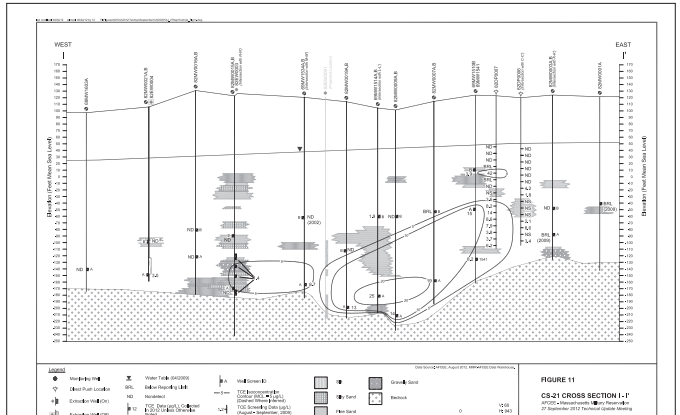


FIGURE 11

CS-21 CROSS SECTION I - I'

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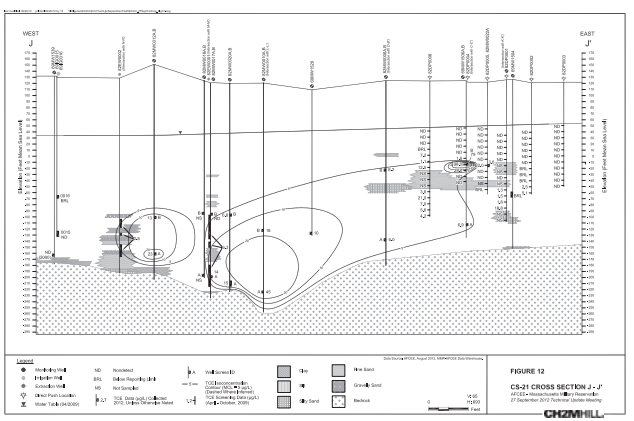


FIGURE 12

CS-21 CROSS SECTION J - J'

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Table 1
Proposed Southwest Plumes Chemical Monitoring Network
27 September 2012 Technical Update Meeting

Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
CS-4 Chemical Monitoring Network												
02EW0014						✓			Q		VOC, EDB	VOC
02EW0015						✓			Q		VOC, EDB	VOC
02MW0001D				✓					TE	NM	VOC	
02MW0006D				✓					TE		VOC	
02MW1205B	✓	✓							TE		VOC	
02MW1205C	✓	✓							A		VOC	
02MW1205D	✓	✓							TE		VOC	
02MW1210A				✓					TE		VOC	
02MW1251		✓							TE	A	VOC, EDB	VOC
02MW1252		✓	✓		✓				TE		VOC	
02MW1253		✓			✓				A	TE	VOC	
02MW1254				✓					A	TE	VOC	
02MW1258A	✓			✓					TE	NM	VOC	
02MW1259A		✓							A	TE	VOC	
02MW1259B		✓							A		VOC	
02MW2000B	✓								A		VOC	
02OW0009C				✓					TE	NM	VOC	
02OW0015C		✓							A	TE	VOC	
02OW0016D		✓							A		VOC	
69MW1261		✓	✓						A		VOC	
69MW1262		✓							A		VOC	
69MW1264				✓					TE		VOC	
69MW1265				✓					A	TE	VOC	
69MW1267			✓		✓				A		VOC	
69MW1268A	✓								TE		VOC	
69MW1281				✓					A		VOC	
69MW1282				✓					A	TE	VOC	
69MW1417				✓					TE		VOC	
CS-20 Chemical Monitoring Network												
81EW0001						✓			Q		VOC	
81EW0002						✓			Q		VOC	
32MW2002				✓					TE		VOC	
32MW2003				✓					TE	NM	VOC	
69MW1422		✓							TE		VOC	
69MW1503A	✓			✓					TE	NM	VOC	
69MW1503B	✓			✓					TE		VOC	
69MW1507							✓		A		VOC[1]	
69MW1517A		✓							A		VOC	
69MW1517B		✓							A		VOC	
81MW0003A	✓	✓							TE		VOC	
81MW0003B	✓	✓							A		VOC	
81MW0004A	✓			✓					TE		VOC	
81MW0005A		✓							TE		VOC	
81MW0005B		✓							A		VOC	
81MW0006A				✓					A		VOC	
81MW0006B				✓					TE		VOC	
81MW0007A				✓					A		VOC	
81MW0007B				✓					A		VOC	
81MW0008B		✓		✓	✓				TE		VOC	
81MW0010B		✓		✓					TE		VOC	
81MW0011A		✓							A		VOC	
81MW0011B		✓							A		VOC	
81MW0012A				✓					TE		VOC	
81MW0013A			✓	✓			✓		SA		VOC[1]	
81MW0013B			✓	✓			✓		SA		VOC[1]	
81MW0015A			✓		✓				TE	NM	VOC	

Table 1
Proposed Southwest Plumes Chemical Monitoring Network
27 September 2012 Technical Update Meeting

Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
81MW0015B			✓		✓				TE		VOC	
81MW0016B				✓					TE		VOC	
81MW0017B				✓					A	TE	VOC	
81MW0018A			✓	✓			✓		A	TE	VOC[1]	
81MW0018B			✓	✓			✓		SA	A	VOC[1]	
81MW0019A			✓	✓			✓		SA		VOC[1]	
81MW0019B			✓	✓			✓		A		VOC[1]	
81MW0019C			✓	✓			✓		SA		VOC[1]	
CS-21 Chemical Monitoring Network												
82EW0001						✓			Q		VOC	
82EW0002						✓			Q		VOC	
82EW0003						✓			Q		VOC	
69IG0015								✓	A		VOC[1], EDB	
69IG0016								✓	A		VOC[1], EDB	
69MW1504	✓				✓				TE		VOC	
69MW1506A	✓								TE		VOC	
69MW1506B	✓								A		VOC	
69MW1510A		✓							TE	A	VOC	
69MW1510B		✓							TE		VOC	
69MW1514A				✓					A		VOC	
69MW1514B				✓					A	TE	VOC	
69MW1516A				✓					TE		VOC	
69MW1516B				✓					TE		VOC	
69MW1529		✓							TE		VOC	
69MW1532A		✓							TE		VOC	
69MW1532B		✓							TE		VOC	
69MW1534A				✓					A		VOC	
69MW1541		✓							TE		VOC	
69MW1603A			✓						A	TE	VOC	
80MW0005A				✓					TE	NM	VOC	
80MW0005B				✓					TE		VOC	
82MW0003B	✓			✓					TE		VOC	
82MW0005A		✓							TE		VOC	
82MW0006A		✓							TE		VOC	
82MW0006B		✓							TE	A	VOC	
82MW0007A		✓							A		VOC	
82MW0007B		✓							TE		VOC	
82MW0009A		✓							A		VOC	
82MW0009B		✓							TE	NM	VOC	
82MW0010A		✓							A		VOC	
82MW0010B		✓							A	TE	VOC	
82MW0011A				✓					TE		VOC	
82MW0011B				✓					TE		VOC	
82MW0012A		✓							A		VOC	
82MW0012B		✓							A		VOC	
82MW0014A				✓					TE	NM	VOC	
82MW0015A		✓			✓				TE	NM	VOC	
82MW0015B		✓			✓				TE	NM	VOC	
82MW0016A			✓						A		VOC	
82MW0016B			✓						A		VOC	
82MW0017A		✓			✓				TE	NM	VOC	
82MW0017B		✓			✓				TE	NM	VOC	
82MW0019A		✓							TE		VOC	
82MW0019B		✓							TE		VOC	
82MW0020A		✓			✓				TE		VOC	
82MW0020B		✓			✓				TE		VOC	
82MW0021A			✓		✓				SA	A	VOC	
82MW0021B			✓		✓				SA	TE	VOC	

Table 1
Proposed Southwest Plumes Chemical Monitoring Network
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Location	Upgradient and/or Trailing Edge Monitoring	Monitoring in Main Body of Plume	Leading Edge and/or Downgradient of Treatment System	Plume Boundary Monitoring	System Performance Monitoring	Mass Removal	Crooked Pond Sentry Well	Irrigation Well	Frequency	Proposed Frequency	Parameters	Proposed Parameters
82MW0022A	✓								A		VOC	
FS-29 Chemical Monitoring Network												
69IG0018								✓	A		VOC[1], EDB	
69MW1522A	✓			✓					TE		EDB	
69MW1536A		✓							A	TE	EDB	
69MW1536B		✓							A	TE	EDB	
69MW1542		✓		✓					SA	A	VOC, EDB	EDB
69MW1543				✓					A		VOC, EDB	
69MW1545A			✓						A	TE	EDB	
80MW0001A	✓	✓							A		EDB	
80MW0001B	✓	✓							A		EDB	
80MW0002A		✓							A	TE	EDB	
80MW0002B		✓							A		EDB	
80MW0004A		✓							A		VOC, EDB	
80MW0004B		✓							A		EDB	
80MW0006A			✓		✓				SA	A	EDB	
80MW0006B			✓		✓				SA	TE	EDB	
80MW0008A			✓	✓					A	TE	EDB	
80MW0012A	✓			✓					TE	NM	EDB	
80MW0012B	✓			✓					TE		EDB	
80MW0013A		✓							A		EDB	
80MW0013B		✓							TE	NM	EDB	
80MW0014A			✓						A	NM	EDB	
80MW0015A			✓	✓					SA	A	VOC, EDB	
80MW0015B			✓	✓					SA	A	VOC, EDB	
80MW0015C			✓	✓					SA	TE	EDB	
82MW0013B				✓					A	TE	EDB	

Notes:
Analytical sampling methods for the specified parameters: VOC (SW846 8260B); VOC[1] (EPA 524.2); EDB (EPA 504.1)

Key:
A = annually
CS = Chemical Spill
EDB = ethylene dibromide
FS = Fuel Spill
NM
Q = quarterly
SA = semiannually
TE = triennially
VOC = volatile organic compound

Table 2
Historic Southwest Plumes Groundwater Monitoring Results
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Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
CS-4 Historic Monitoring Results						
02EW0014	12/05/05	3	1.3	BRL	BRL	--
02EW0014	03/21/06	4.2	1.5	BRL	BRL	--
02EW0014	06/09/06	2.4	BRL	BRL	ND	--
02EW0014	10/10/06	3.5	1.2	BRL	ND	--
02EW0014	01/25/07	3.4	1.1	BRL	ND	--
02EW0014	03/29/07	3.6	1.3	BRL	ND	--
02EW0014	06/21/07	3.3	1.1	BRL	ND	--
02EW0014	09/25/07	3.4	1.3	BRL	ND	--
02EW0014	12/14/07	3.1	1.2	BRL	ND	--
02EW0014	03/13/08	3.4	1.2	BRL	ND	--
02EW0014	06/26/08	2.9	1	BRL	ND	--
02EW0014	09/18/08	4.2	1.3	BRL	ND	--
02EW0014	11/25/08	4.6	1.4	BRL	ND	--
02EW0014	03/24/09	3.9	1.4	BRL	ND	--
02EW0014	06/24/09	4.5	ND	BRL	ND	--
02EW0014	09/11/09	3.8	1.3	BRL	ND	--
02EW0014	12/29/09	4.6	1.4	BRL	ND	--
02EW0014	03/03/10	4.5	1.4	BRL	ND	--
02EW0014	06/22/10	4	1.5	BRL	ND	--
02EW0014	10/07/10	4.6	1.5	BRL	ND	--
02EW0014	12/08/10	3.9	1.4	BRL	ND	--
02EW0014	03/15/11	4.5	1.5	ND	ND	--
02EW0014	06/16/11	**5.4**	1.4	BRL	ND	--
02EW0014	09/21/11	**6.3**	1.8	BRL	ND	--
02EW0014	12/29/11	**5.4**	1.6	BRL	ND	--
02EW0014	03/15/12	4.6	1.4	BRL	ND	--
02EW0014	06/13/12	4.4	1.2	BRL	ND	--
02EW0015	12/05/05	**10.7**	2.2	1.1	ND	--
02EW0015	03/21/06	1.9	BRL	BRL	ND	--
02EW0015	06/09/06	1.5	BRL	BRL	ND	--
02EW0015	10/10/06	1.3	BRL	BRL	ND	--
02EW0015	01/25/07	1.1	BRL	ND	ND	--
02EW0015	03/29/07	1.1	BRL	ND	ND	--
02EW0015	06/21/07	BRL	BRL	ND	ND	--
02EW0015	09/25/07	1.2	BRL	BRL	ND	--
02EW0015	12/14/07	1.6	BRL	BRL	ND	--
02EW0015	03/13/08	1.4	BRL	BRL	ND	--
02EW0015	06/26/08	1.3	BRL	BRL	ND	--
02EW0015	09/18/08	2	BRL	BRL	ND	--
02EW0015	11/25/08	2.5	BRL	BRL	ND	--
02EW0015	03/24/09	2.2	BRL	BRL	ND	--
02EW0015	06/24/09	1.7	ND	BRL	ND	--
02EW0015	09/11/09	2.2	BRL	BRL	ND	--
02EW0015	12/29/09	2.8	BRL	BRL	ND	--
02EW0015	03/03/10	2.8	BRL	BRL	ND	--
02EW0015	06/22/10	3	BRL	BRL	ND	--
02EW0015	10/07/10	3.4	BRL	BRL	ND	--
02EW0015	12/08/10	3	BRL	BRL	ND	--
02EW0015	03/15/11	3.1	BRL	ND	ND	--
02EW0015	06/16/11	4	BRL	BRL	ND	--
02EW0015	09/21/11	3.5	BRL	BRL	ND	--
02EW0015	12/29/11	4.2	BRL	BRL	ND	--
02EW0015	03/15/12	3.2	BRL	BRL	ND	--
02EW0015	06/13/12	3.2	BRL	BRL	ND	--
02MW0001D	07/09/02	3.78	1.45	ND	ND	--
02MW0001D	07/07/05	2.8	BRL	BRL	NS	--
02MW0001D	03/23/07	**6**	1.7	BRL	NS	--

Table 2
Historic Southwest Plumes Groundwater Monitoring Results
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Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
02MW0001D	03/28/08	4.2	1.3	BRL	NS	--
02MW0001D	05/14/09	2.9	BRL	ND	NS	--
02MW0001D	01/05/10	3.3	BRL	ND	NS	--
02MW0001D	03/05/12	1.1	BRL	ND	NS	--
02MW1251	04/03/02	BRL	BRL	ND	0.015	--
02MW1251	10/10/02	BRL	BRL	ND	0.012	--
02MW1251	04/18/03	2.64	1.23	BRL	0.014	--
02MW1251	07/06/05	**23.7**	**7.3**	**6.3**	0.014	--
02MW1251	05/14/09	**19.7**	**5.5**	**2.4**	NS	--
02MW1251	05/21/09	**18.4**	**5.3**	**2.2**	BRL	--
02MW1251	03/05/12	**12**	3.1	BRL	ND	--
02MW1253	04/03/02	2.23	1.4	ND	NS	--
02MW1253	10/10/02	1.91	1.24	BRL	NS	--
02MW1253	04/18/03	2.23	1.4	BRL	NS	--
02MW1253	01/20/10	**16**	**5.5**	**3**	NS	--
02MW1253	04/04/11	**20**	4.8	**2.8**	NS	--
02MW1253	03/05/12	**21**	**5.6**	**3.5**	NS	--
02MW1254	07/11/02	ND	ND	ND	**0.025**	--
02MW1254	04/01/08	**18**	**5.9**	**3.1**	BRL	--
02MW1254	05/14/09	**16.2**	**5.3**	**2.4**	NS	--
02MW1254	01/06/10	**8.9**	1.5	BRL	NS	--
02MW1254	04/04/11	4.1	BRL	ND	NS	--
02MW1254	03/05/12	3.3	BRL	BRL	NS	--
02MW1259A	07/02/02	**23.2**	4.7	**5.13**	BRL	--
02MW1259A	07/07/05	**9.7**	2.6	BRL	NS	--
02MW1259A	03/30/07	**18**	**5.1**	1.2	NS	--
02MW1259A	03/28/08	**5.8**	3	BRL	NS	--
02MW1259A	05/14/09	**5.6**	1.8	BRL	NS	--
02MW1259A	01/05/10	2.7	BRL	ND	NS	--
02MW1259A	04/04/11	BRL	ND	ND	NS	--
02MW1259A	03/07/12	BRL	ND	ND	NS	--
02OW0009C	04/03/02	**6.23**	**5.96**	**2.4**	NS	--
02OW0009C	10/10/02	2.28	1.02	ND	NS	--
02OW0009C	04/15/03	1.75	BRL	ND	NS	--
02OW0009C	07/06/05	1.2	BRL	ND	NS	--
02OW0009C	03/23/07	1.6	BRL	ND	NS	--
02OW0009C	03/28/08	**5.3**	1.1	BRL	NS	--
02OW0009C	05/14/09	1.8	BRL	ND	NS	--
02OW0009C	01/05/10	BRL	ND	ND	NS	--
02OW0009C	03/05/12	ND	ND	ND	NS	--
02OW0015C	07/09/02	4.88	BRL	ND	ND	--
02OW0015C	07/06/05	BRL	ND	ND	NS	--
02OW0015C	03/23/07	BRL	ND	ND	NS	--
02OW0015C	03/28/08	BRL	ND	ND	NS	--
02OW0015C	05/14/09	BRL	ND	ND	NS	--
02OW0015C	01/05/10	BRL	ND	ND	NS	--
02OW0015C	04/04/11	3.2	BRL	ND	NS	--
02OW0015C	03/07/12	BRL	ND	ND	NS	--
69MW1265	07/10/02	ND	ND	ND	ND	--
69MW1265	07/11/05	BRL	BRL	ND	NS	--
69MW1265	04/01/08	**8.1**	2.5	1.3	NS	--
69MW1265	05/14/09	**5.1**	1.6	BRL	NS	--
69MW1265	01/05/10	**5.8**	1.8	BRL	NS	--
69MW1265	04/20/11	**8.2**	2	BRL	NS	--
69MW1265	03/07/12	2.1	ND	ND	NS	--
69MW1282	04/01/08	5	1.2	ND	NS	--
69MW1282	05/14/09	**8.2**	2	ND	NS	--

Table 2
Historic Southwest Plumes Groundwater Monitoring Results
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Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
69MW1282	01/05/10	**7.6**	1.6	ND	NS	--
69MW1282	04/04/11	4.9	1.6	ND	NS	--
69MW1282	03/07/12	4.8	1.6	ND	NS	--
CS-20 Historic Monitoring Results						
32MW2003	06/13/02	2.85	--	--	--	--
32MW2003	07/11/05	2.3	--	--	--	--
32MW2003	05/18/09	ND	--	--	--	--
32MW2003	03/08/12	ND	--	--	--	--
69MW1503A	07/10/02	ND	--	--	--	--
69MW1503A	03/14/12	ND	--	--	--	--
81MW0007A	07/08/02	ND	--	--	--	--
81MW0007A	07/12/05	ND	--	--	--	--
81MW0007A	03/23/07	ND	--	--	--	--
81MW0007A	03/27/08	ND	--	--	--	--
81MW0007A	05/18/09	ND	--	--	--	--
81MW0007A	03/09/10	ND	--	--	--	--
81MW0007A	03/09/12	ND	--	--	--	--
81MW0015A	06/14/02	ND	--	--	--	--
81MW0015A	10/21/03	ND	--	--	--	--
81MW0015A	09/22/04	ND	--	--	--	--
81MW0015A	07/14/05	ND	--	--	--	--
81MW0015A	05/18/09	ND	--	--	--	--
81MW0015A	03/08/12	ND	--	--	--	--
81MW0017B	07/08/02	**6.49**	--	--	--	--
81MW0017B	07/14/05	3.2	--	--	--	--
81MW0017B	03/23/07	2	--	--	--	--
81MW0017B	03/27/08	2.3	--	--	--	--
81MW0017B	05/18/09	**5.9**	--	--	--	--
81MW0017B	03/25/10	4.8	--	--	--	--
81MW0017B	04/11/11	3.1	--	--	--	--
81MW0017B	03/08/12	2.1	--	--	--	--
81MW0018A	08/03/06	3.2	--	--	--	--
81MW0018A	07/03/07	2.1	--	--	--	--
81MW0018A	07/07/08	4.3	--	--	--	--
81MW0018A	03/05/09	2.3	--	--	--	--
81MW0018A	03/23/10	4.5	--	--	--	--
81MW0018A	03/02/11	3.3	--	--	--	--
81MW0018A	03/01/12	1.2	--	--	--	--
81MW0018B	08/03/06	0.81	--	--	--	--
81MW0018B	07/03/07	0.68	--	--	--	--
81MW0018B	07/07/08	**7.3**	--	--	--	--
81MW0018B	03/05/09	**16.3**	--	--	--	--
81MW0018B	03/23/10	**29**	--	--	--	--
81MW0018B	08/26/10	**8.9**	--	--	--	--
81MW0018B	03/02/11	**8.7**	--	--	--	--
81MW0018B	09/22/11	2.6	--	--	--	--
81MW0018B	03/01/12	2.3	--	--	--	--
CS-21 Historic Monitoring Results						
69MW1510A	06/18/02	--	**12**	--	--	--
69MW1510A	03/02/12	--	**15**	--	--	--
69MW1514B	06/10/02	--	**8.32**	--	--	--
69MW1514B	06/08/06	--	**12.6**	--	--	--
69MW1514B	03/12/07	--	**36.7**	--	--	--
69MW1514B	04/09/08	--	**29.7**	--	--	--
69MW1514B	05/05/09	--	**19.7**	--	--	--

Table 2
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Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
69MW1514B	03/29/10	--	**7.2**	--	--	--
69MW1514B	04/08/11	--	**5.4**	--	--	--
69MW1514B	04/20/12	--	1.9	--	--	--
69MW1603A	06/11/02	--	ND	--	--	--
69MW1603A	06/19/06	--	ND	--	--	--
69MW1603A	03/26/07	--	ND	--	--	--
69MW1603A	03/26/08	--	ND	--	--	--
69MW1603A	05/12/09	--	ND	--	--	--
69MW1603A	03/05/10	--	BRL	--	--	--
69MW1603A	03/25/11	--	ND	--	--	--
69MW1603A	04/16/12	--	ND	--	--	--
80MW0005A	06/19/06	--	ND	--	--	--
80MW0005A	03/26/07	--	ND	--	--	--
80MW0005A	03/26/08	--	ND	--	--	--
80MW0005A	04/30/09	--	ND	--	--	--
80MW0005A	04/17/12	--	ND	--	--	--
82MW0006B	06/12/02	--	**85.4**	--	--	--
82MW0006B	10/03/03	--	**85.2**	--	--	--
82MW0006B	09/16/04	--	**75.8**	--	--	--
82MW0006B	06/16/06	--	**59**	--	--	--
82MW0006B	05/05/09	--	**9.9**	--	--	--
82MW0006B	07/01/09	--	**8.1**	--	--	--
82MW0006B	02/28/12	--	**8.2**	--	--	--
82MW0009B	07/02/02	--	ND	--	--	--
82MW0009B	06/07/06	--	ND	--	--	--
82MW0009B	05/05/09	--	ND	--	--	--
82MW0009B	02/28/12	--	ND	--	--	--
82MW0010B	07/03/02	--	**11.6**	--	--	--
82MW0010B	06/08/06	--	**17.3**	--	--	--
82MW0010B	03/12/07	--	**17**	--	--	--
82MW0010B	03/26/08	--	**12.3**	--	--	--
82MW0010B	05/05/09	--	**13.4**	--	--	--
82MW0010B	03/23/10	--	**15**	--	--	--
82MW0010B	03/25/11	--	**19**	--	--	--
82MW0010B	02/24/12	--	**18**	--	--	--
82MW0014A	07/09/02	--	BRL	--	--	--
82MW0014A	06/21/06	--	3.9	--	--	--
82MW0014A	03/28/07	--	BRL	--	--	--
82MW0014A	03/26/08	--	ND	--	--	--
82MW0014A	04/29/09	--	ND	--	--	--
82MW0014A	04/16/12	--	ND	--	--	--
82MW0015A	06/17/02	--	ND	--	--	--
82MW0015A	06/13/06	--	BRL	--	--	--
82MW0015A	04/29/09	--	BRL	--	--	--
82MW0015A	03/06/12	--	ND	--	--	--
82MW0015B	06/17/02	--	**13.8**	--	--	--
82MW0015B	06/18/04	--	**8.2**	--	--	--
82MW0015B	09/15/04	--	**7.5**	--	--	--
82MW0015B	06/13/06	--	4.6	--	--	--
82MW0015B	05/11/09	--	ND	--	--	--
82MW0015B	03/06/12	--	ND	--	--	--
82MW0017A	06/15/06	--	**24.4**	--	--	--
82MW0017A	04/29/09	--	**12.7**	--	--	--
82MW0017A	04/16/12	--	**14**	--	--	--
82MW0017B	06/15/06	--	**16.3**	--	--	--
82MW0017B	04/29/09	--	ND	--	--	--

Table 2
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Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
82MW0017B	04/16/12	--	ND	--	--	--
82MW0021A	06/21/06	--	ND	--	--	--
82MW0021A	04/30/09	--	**7.1**	--	--	--
82MW0021A	03/25/10	--	2.7	--	--	--
82MW0021A	08/26/10	--	2.3	--	--	--
82MW0021A	04/01/11	--	4.6	--	--	--
82MW0021A	09/07/11	--	2.6	--	--	--
82MW0021A	04/20/12	--	3	--	--	--
82MW0021B	06/21/06	--	ND	--	--	--
82MW0021B	04/30/09	--	ND	--	--	--
82MW0021B	03/25/10	--	ND	--	--	--
82MW0021B	08/26/10	--	ND	--	--	--
82MW0021B	04/01/11	--	ND	--	--	--
82MW0021B	09/22/11	--	ND	--	--	--
82MW0021B	04/20/12	--	ND	--	--	--
FS-29 Historic Monitoring Results						
69MW1536A	02/04/02	--	--	--	**0.047**	**7.9**
69MW1536A	06/06/02	--	--	--	**0.058**	4.82
69MW1536A	10/02/02	--	--	--	**0.068**	3.96
69MW1536A	02/05/03	--	--	--	**0.063**	**5.52**
69MW1536A	06/11/03	--	--	--	**0.064**	4.65
69MW1536A	10/02/03	--	--	--	**0.056**	4.77
69MW1536A	09/17/04	--	--	--	**0.038**	4.9
69MW1536A	06/09/06	--	--	--	**0.024**	4.3
69MW1536A	03/25/08	--	--	--	BRL	2
69MW1536A	05/11/09	--	--	--	BRL	2.3
69MW1536A	03/08/10	--	--	--	BRL	NS
69MW1536A	03/31/11	--	--	--	ND	NS
69MW1536A	04/16/12	--	--	--	ND	NS
69MW1536B	02/04/02	--	--	--	**0.031**	NS
69MW1536B	06/06/02	--	--	--	**0.023**	NS
69MW1536B	10/02/02	--	--	--	**0.021**	NS
69MW1536B	02/05/03	--	--	--	0.017	NS
69MW1536B	06/11/03	--	--	--	0.018	NS
69MW1536B	06/09/06	--	--	--	BRL	BRL
69MW1536B	03/25/08	--	--	--	BRL	BRL
69MW1536B	05/11/09	--	--	--	BRL	BRL
69MW1536B	03/08/10	--	--	--	BRL	NS
69MW1536B	03/31/11	--	--	--	ND	NS
69MW1536B	04/16/12	--	--	--	ND	NS
69MW1542	02/04/02	--	--	--	**0.026**	**9.42**
69MW1542	06/04/02	--	--	--	**0.025**	**5.87**
69MW1542	10/02/02	--	--	--	**0.024**	**5.71**
69MW1542	02/03/03	--	--	--	0.02	**7.34**
69MW1542	06/11/03	--	--	--	**0.024**	**6.74**
69MW1542	06/13/06	--	--	--	BRL	**5.1**
69MW1542	04/29/09	--	--	--	BRL	BRL
69MW1542	04/01/11	--	--	--	0.014	1.9
69MW1542	09/07/11	--	--	--	BRL	1.3
69MW1542	03/06/12	--	--	--	ND	1.4
69MW1545A	02/05/02	--	--	--	**0.052**	NS
69MW1545A	06/06/02	--	--	--	**0.057**	NS
69MW1545A	10/02/02	--	--	--	**0.056**	NS
69MW1545A	02/03/03	--	--	--	**0.041**	NS
69MW1545A	06/17/03	--	--	--	**0.03**	NS
69MW1545A	11/24/03	--	--	--	**0.022**	NS
69MW1545A	09/17/04	--	--	--	**0.045**	NS

Table 2
Historic Southwest Plumes Groundwater Monitoring Results
27 September 2012 Technical Update Meeting

Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
69MW1545A	06/13/06	--	--	--	**0.031**	NS
69MW1545A	03/09/07	--	--	--	**0.042**	NS
69MW1545A	03/25/08	--	--	--	**0.023**	NS
69MW1545A	05/11/09	--	--	--	0.014	NS
69MW1545A	03/25/10	--	--	--	ND	NS
69MW1545A	04/01/11	--	--	--	ND	NS
69MW1545A	04/16/12	--	--	--	ND	NS
80MW0002A	02/06/02	--	--	--	**0.039**	NS
80MW0002A	06/03/02	--	--	--	**0.059**	NS
80MW0002A	10/01/02	--	--	--	**0.072**	NS
80MW0002A	02/04/03	--	--	--	**0.083**	NS
80MW0002A	06/10/03	--	--	--	**0.141**	NS
80MW0002A	06/15/06	--	--	--	0.011	NS
80MW0002A	03/19/07	--	--	--	0.011	NS
80MW0002A	03/25/08	--	--	--	0.015	NS
80MW0002A	05/12/09	--	--	--	0.013	NS
80MW0002A	03/08/10	--	--	--	BRL	NS
80MW0002A	03/31/11	--	--	--	ND	NS
80MW0002A	04/16/12	--	--	--	BRL	NS
80MW0006A	02/04/02	--	--	--	**0.023**	NS
80MW0006A	06/04/02	--	--	--	**0.026**	NS
80MW0006A	10/03/02	--	--	--	**0.024**	NS
80MW0006A	02/25/03	--	--	--	**0.027**	NS
80MW0006A	06/17/03	--	--	--	**0.032**	NS
80MW0006A	06/13/06	--	--	--	**0.03**	NS
80MW0006A	05/13/09	--	--	--	BRL	NS
80MW0006A	04/01/11	--	--	--	ND	NS
80MW0006A	09/22/11	--	--	--	ND	NS
80MW0006A	03/06/12	--	--	--	ND	NS
80MW0006B	06/06/02	--	--	--	ND	ND
80MW0006B	06/17/03	--	--	--	ND	ND
80MW0006B	06/13/06	--	--	--	ND	NS
80MW0006B	04/29/09	--	--	--	ND	NS
80MW0006B	04/01/11	--	--	--	ND	NS
80MW0006B	09/07/11	--	--	--	ND	NS
80MW0006B	03/06/12	--	--	--	ND	NS
80MW0008A	02/05/02	--	--	--	**0.037**	NS
80MW0008A	06/07/02	--	--	--	**0.039**	NS
80MW0008A	10/02/02	--	--	--	**0.032**	NS
80MW0008A	02/03/03	--	--	--	**0.033**	NS
80MW0008A	06/16/03	--	--	--	**0.027**	NS
80MW0008A	11/24/03	--	--	--	**0.037**	NS
80MW0008A	09/17/04	--	--	--	**0.051**	NS
80MW0008A	06/30/06	--	--	--	**0.05**	NS
80MW0008A	03/09/07	--	--	--	**0.025**	NS
80MW0008A	03/26/08	--	--	--	0.015	NS
80MW0008A	04/29/09	--	--	--	0.01	NS
80MW0008A	03/05/10	--	--	--	ND	NS
80MW0008A	04/21/11	--	--	--	ND	NS
80MW0008A	04/16/12	--	--	--	ND	NS
80MW0012A	06/21/02	--	--	--	BRL	1.02
80MW0012A	04/13/12	--	--	--	ND	NS
80MW0013B	07/08/02	--	--	--	**0.026**	ND
80MW0013B	06/16/06	--	--	--	BRL	NS
80MW0013B	05/12/09	--	--	--	ND	NS
80MW0013B	04/13/12	--	--	--	ND	NS
80MW0014A	09/15/04	--	--	--	ND	NS

Table 2
Historic Southwest Plumes Groundwater Monitoring Results
27 September 2012 Technical Update Meeting

Location	Date	Laboratory Analyses				
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	1,1,2,2-TeCA (µg/L) GW-1 = 2	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
80MW0014A	06/14/06	--	--	--	ND	NS
80MW0014A	03/26/07	--	--	--	ND	NS
80MW0014A	03/26/08	--	--	--	ND	NS
80MW0014A	04/29/09	--	--	--	ND	NS
80MW0014A	03/05/10	--	--	--	ND	NS
80MW0014A	03/31/11	--	--	--	ND	NS
80MW0014A	02/24/12	--	--	--	ND	NS
80MW0015A	05/13/09	--	--	--	ND	3.8
80MW0015A	08/05/09	--	--	--	ND	3.1
80MW0015A	03/05/10	--	--	--	ND	4.2
80MW0015A	08/26/10	--	--	--	ND	**5.3**
80MW0015A	09/23/10	--	--	--	ND	**4.5**
80MW0015A	04/01/11	--	--	--	ND	**6.4**
80MW0015A	05/11/11	--	--	--	NS	**5.5**
80MW0015A	09/07/11	--	--	--	ND	**6.2**
80MW0015A	03/06/12	--	--	--	ND	5
80MW0015B	05/13/09	--	--	--	0.015	1.7
80MW0015B	08/05/09	--	--	--	0.011	BRL
80MW0015B	03/05/10	--	--	--	0.012	1
80MW0015B	08/26/10	--	--	--	**0.024**	BRL
80MW0015B	09/23/10	--	--	--	0.013	BRL
80MW0015B	04/01/11	--	--	--	ND	**5.8**
80MW0015B	05/11/11	--	--	--	NS	4.7
80MW0015B	09/07/11	--	--	--	BRL	4.7
80MW0015B	03/06/12	--	--	--	ND	4.4
80MW0015C	05/13/09	--	--	--	ND	ND
80MW0015C	08/05/09	--	--	--	ND	ND
80MW0015C	03/05/10	--	--	--	ND	NS
80MW0015C	08/26/10	--	--	--	ND	NS
80MW0015C	04/01/11	--	--	--	ND	NS
80MW0015C	09/07/11	--	--	--	ND	NS
80MW0015C	03/06/12	--	--	--	ND	NS
82MW0013B	02/06/02	--	--	--	**0.028**	NS
82MW0013B	06/03/02	--	--	--	**0.024**	NS
82MW0013B	10/02/02	--	--	--	**0.032**	NS
82MW0013B	02/04/03	--	--	--	**0.03**	NS
82MW0013B	06/19/03	--	--	--	**0.029**	NS
82MW0013B	06/09/06	--	--	--	0.01	NS
82MW0013B	03/22/07	--	--	--	BRL	NS
82MW0013B	03/25/08	--	--	--	BRL	NS
82MW0013B	05/11/09	--	--	--	BRL	NS
82MW0013B	03/08/10	--	--	--	BRL	NS
82MW0013B	03/31/11	--	--	--	ND	NS
82MW0013B	04/04/12	--	--	--	BRL	NS

Data Source: AFCEE, August 2012, MMR-AFCEE Data Warehouse.

Notes:
-- only plume COCs are presented
BOLD values indicate an MCL, MMCL or GW-1 standard exceedance.

Key:

BRL = below the reporting limit
COC = contaminant of concern
CS = Chemical Spill
EDB = ethylene dibromide
GW-1 = MCP Method 1 Groundwater-1 standard
MCL = Maximum Contaminant Level
MCP = Massachusetts Contingency Plan
MMCL = Massachusetts MCL
ND = not detected
NS = not sampled
PCE = tetrachloroethene
SpC = specific conductance
TeCA = tetrachloroethene

ATTACHMENT B

CS-20 Remedial System Approach, 28 November 2012 Technical Update Meeting

CS-20 Remedial System Optimization Approach
28 November 2012 Technical Update Meeting

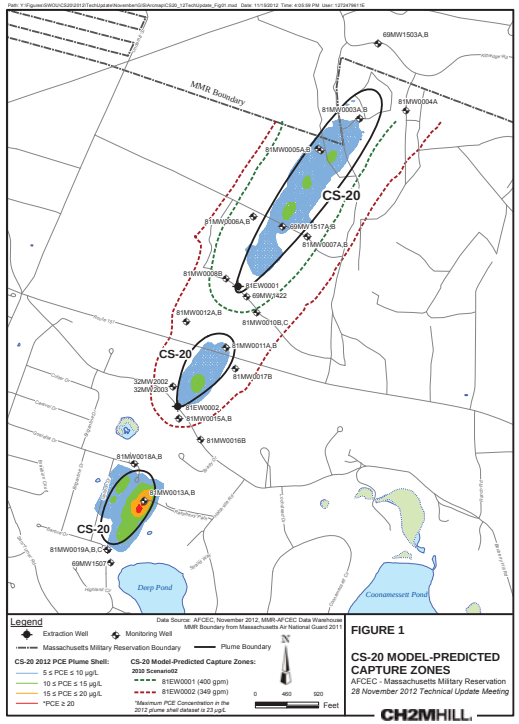
Background **(from Southwest Plumes September 2012 Triennial Data Presentation)**

- SPEIM data indicate an opportunity to optimize the CS-20 remedial system exists:
 - Direct push drilling was unsuccessful in achieving target depths to collect data for an optimization evaluation for CS-20.
 - Flow test data collected at 81EW0001 in 2011/2012 for optimization evaluation.
 - Plume shell will be updated with 2012 groundwater monitoring data.
 - Remedial system will be optimized to most efficient operation possible while maintaining hydraulic capture of plume.
 - Assess overall reinjection strategy for the Southwest Plumes.

CS-20 Remedial System Optimization Approach
28 November 2012 Technical Update Meeting

Planned Optimization Approach

- Plume shell has been updated with 2012 data (Figure 1) for optimization assessment.
- The plume upgradient of 81EW0001 is located between boundary wells 81MW0006A/B and 81MW0007A/B; the plume upgradient of 81EW0002 is located between monitoring wells 32MW2002/32MW2003 and 81MW0017A/B.
- Plan to adjust flow rates in model at each extraction well until the individual hydraulic capture zones fit within those boundary wells at the appropriate elevations (i.e., where the plume is in the aquifer).
- Run transport simulations with the optimal flow rates for hydraulic capture to determine fate and transport of the plume; assess updated restoration timeframe and estimated system shut down date and compare to the model results presented in the ROD.
- Present results at technical update meeting and document in a project note.



ATTACHMENT C

MassDEP E-mailed Concurrence on Proposed Monitoring Network

-----Original Message-----
From: Jacobs, Elliot (DEP) [mailto:elliot.jacobs@state.ma.us]
Sent: Friday, December 07, 2012 12:12 PM
To: DAVIS, JONATHAN S GS-14 USAF DoD AFCEE/EXE/MMR
Cc: Lim.Robert@epamail.epa.gov; FORBES, ROSE H GS-13 USAF AETC EXE; Pinaud, Leonard (DEP)
Subject: RE: MassDEP questions/comments on Southwest Plumes Triennial SPEIM Data Presentation 9/27/2012 IRP Tech Meeting

Hi Jon, MassDEP concurs with the AFCEC's responses to MassDEP's comments on the Southwest Plumes Triennial SPEIM Data Presentation from the 9/27/2012 IRP Tech Meeting. MassDEP provided comments (provided below) to AFCEC in an e-mail October 15, 2012 and AFCEC provided responses to MassDEP's comments in an e-mail dated November 21, 2012 (provided below). Please incorporate this e-mail into the Administrative Record for the CS-4, CS-20, CS-21, and FS-29 groundwater plumes at the MMR.

Elliott Jacobs, MassDEP - BWSC SERO
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From: DAVIS, JONATHAN S GS-14 USAF DoD AFCEE/EXE/MMR
[mailto:jonathan.davis.2@us.af.mil]
Sent: Wednesday, November 21, 2012 9:33 AM
To: Jacobs, Elliot (DEP); Pinaud, Leonard (DEP)
Cc: Lim.Robert@epamail.epa.gov; DALRYMPLE, JASON CTR USAF ANG AFCEE/EXEE; Nigel Tindall; FORBES, ROSE H GS-13 USAF AETC EXE; DEANGELIS, JENNIFER C CTR USAF AETC AFCEE/AFCEE
Subject: FW: MassDEP questions/comments on Southwest Plumes Triennial SPEIM Data Presentation 9/27/2012 IRP Tech Meeting

Len, Elliott-

Please see responses below (in red). This topic is on Wednesday's agenda.

Jon

//SIGNED//
Jonathan S. Davis, P.E., GS-14, DAF
Remediation Program Manager
DSN 557-4670, x4952, COMM 508-968-4670, x4952

-----Original Message-----

From: Jacobs, Elliot (DEP) [mailto:elliot.jacobs@state.ma.us
<mailto:elliot.jacobs@state.ma.us>]
Sent: Monday, October 15, 2012 2:08 PM
To: FORBES, ROSE H GS-13 USAF AETC EXE
Cc: Pinaud, Leonard (DEP); Robert Lim
Subject: MassDEP questions/comments on Southwest Plumes Triennial SPEIM Data Presentation 9/27/2012 IRP Tech Meeting

Hi Rose, MassDEP has reviewed the Southwest Plumes Triennial SPEIM Data Presentation from the 9/27/2012 IRP Tech Meeting and has the following questions/comments.

1. What is the basis for the proposed revised 2012 FS-29 plume boundary indicated on Figure 4? The revised 2012 FS-29 plume boundary shows the FS-29 plume boundary encompassing wells 80MW0002A,B and 80MW0013A,B located in the upgradient portion of the FS-29 plume. However, the April 2012 sampling results for these wells indicate EDB concentrations below the MMCL in all of these wells. It appears at this point that the FS-29 plume would be more appropriately defined by carbon tetrachloride concentrations that in 2012 are hovering around the MCL in wells located further downgradient in the FS-29 plume, including; 69MW1543, 80MW0004A, and 80MW0015A.

Please refer to Figures 7 and 10 from the data presentation (FS-29 plan view map and cross-section, respectively, attached).

In plan view, the new proposed plume outline does encompass monitoring wells 80MW0002A,B and 80MW0013A,B. However, in the cross-sectional view, the proposed plume outline does not encompass those monitoring well screens; rather the plume is conservatively depicted in that area (between those monitoring well screens) due to the assumption that detections of EDB above the MMCL (of 0.02 ug/L) remain in the area downgradient of 81MW0001B, which had an EDB detection of 0.084 ug/L in May of 2009.

A plume outline for CCl4 at FS-29 is not depicted because there is not a continuous 'plume' (defined as detections above the MCL) of CCl4 detected at FS-29. Monitoring wells 69MW1543 and 80MW0015A,B are on a similar flow path and at similar elevations, so a plume could arguably be drawn between those two monitoring wells if concentrations were consistently detected above the MCL at both locations (although the general rule of thumb is that 3 individual locations with detections above a MCl/MMCL are needed to 'draw' a plume).

CCl4 has been below the MCL at 69MW1543 for 7 consecutive sampling rounds (last detection above the MCL was in June 2006), and CCl4 has been below the MCL at 80MW0015A,B for at least 2 consecutive sample rounds (last detection above the MCL was 5.2 ug/L at 80MW0015A in Sept. 2011).

Therefore, there has not been a continuous plume of CCl4 in that area for over 6 years.

Monitoring well 80MW0004A is located cross-gradient to 80MW0015A,B and 69MW1543 (i.e., not hydraulically connected). The most recent CCl4 detection at 80MW0004A is barely above the MCL (5.1 ug/L in April 2012), and is the first MCL exceedance of CCl4 at that location since March 2007. Monitoring wells 69MW1536A/B, 69MW1542 and 80MW0006A/B are the closest wells to 80MW0004A that are on a similar flow path (see Figure 7, attached). CCl4 has not been detected above the MCL at any of those nearby wells since June 2006 (5.1 ug/L at 69MW15452). Based on historical data at all of those wells, there is never been a continuous plume of CCl4 in that area (i.e., no combination of those wells have had CCl4 above the MCL at the same time since they were installed).

2. The CS-20 plume may be a candidate for treatment system optimization. Steady declines in the PCE concentrations in the CS-20 monitoring wells and at the two CS-20 extraction wells have occurred since the CS-20 system began operating. Maximum PCE concentrations of 8.8 ug/L (81MW0005B) and 5.7 ug/L (81MW0011B) were observed upgradient of extraction wells 81EW0001 and 81EW0002, respectively, during the 2012 CS-20 plume sampling event. The July 2012 PCE influent concentrations at extraction wells 81EW0001 (1.9 ug/L) and 81EW0002 (3.2 ug/L) are well below the MCL. The maximum PCE concentrations (23 ug/L at 81MW0013B) in the CS-20 plume are now located downgradient of the CS-20 extraction wells.

Comment noted, a remedial system optimization is underway at CS-20.

3. CS-4 Chemical Monitoring Network optimization. There are two wells 02MW1253 (proposed annual to triennial) and 02MW1258A (proposed elimination from triennial monitoring) indicated for sampling frequency revision in Table 1 of the Southwest Plumes Triennial SPEIM Data Presentation that MassDEP would like to keep at their current monitoring frequency. Monitoring well 02MW1253 has the highest VOC concentrations currently detected in the CS-4 plume and provides important information on the distribution of contaminants immediately upgradient of the CS-4 extraction wells and should be kept on an annual sampling frequency. Monitoring well 02MW1258A had a PCE concentration of 0.93 ug/L in March 2012 after several years of non-detectable concentrations. Since this well is the furthest Upgradient well in the CS-4 network, MassDEP would like to keep this well on a triennial monitoring frequency to be sure that there is not an increasing trend in PCE concentrations upgradient of the CS-20 plume.

CS-4 monitoring well 02MW1253 is located immediately adjacent to the CS-4 extraction wells, and did have the highest PCE detection in the monitoring network in 2012. However, AFCEC does not believe that data collected on an annual basis from 02MW1253 is necessary for the SPEIM program. Samples are collected monthly at the treatment plant and quarterly from the extraction wells to provide data regarding the distribution of contaminants immediately adjacent to the extraction wells.

AFCEC agrees to retain 02MW1258A for monitoring on a TE frequency.

4. CS-4 Chemical Monitoring Network optimization. Table 1 of the Southwest Plumes Triennial SPEIM Data Presentation indicates that CS-21 monitoring well 82MW0017A is proposed for elimination from the CS-21 monitoring well network. This well, which is located in the immediate vicinity of CS-21 extraction well 82EW0001, provides valuable information on the distribution of contaminants in the vicinity of the extraction well and had a TCE concentration of 14 ug/L in 2012. MassDEP recommends retaining this well for chemical monitoring on a triennial frequency.

As noted above, samples are collected monthly at the treatment plant and quarterly from the extraction wells to provide data regarding the distribution of contaminants immediately adjacent to the extraction wells. If influent or extraction well concentrations change unexpectedly in the future, AFCEC would likely sample all available monitoring well screens in the vicinity of the extraction well. However, AFCEC does not believe that routine data collection is necessary at 82MW0017A for the SPEIM program.

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CH2MHILL	PROJECT NOTE	TASK ORDER 0337
		PROJECT NO. 437075
AFCEC **SPEIM/LTM** **Otis ANG Base, Massachusetts** **Contract FA8903-08-D-8769**	**DOCUMENT CONTROL NUMBER:** **437075-SPEIM-SWP-PRJNOT-002** **CDRL B010**	PAGE 1 OF 3

Confirmation Of:	Date Held: 28 November 2012
☒ Meeting	Location: IRP Conference Room
☐ Change Notice	Date Issued: 11 December 2012
☐ General Project Note	Recorded By: Jason Dalrymple
Subject: **SOUTHWEST PLUMES 2012 SEMIANNUAL SPEIM DATA PRESENTATION** *EPA OU-09 SWOU & 19 OU-09B SWOU FS28/FS29 PLUMES*	Issued By: Nigel Tindall CH2M HILL PROJECT MANAGER

ITEM	REMARKS
1.0	**INTRODUCTION** This project note summarizes the Southwest Plumes semiannual data presentation, which included data collected for the Southwest Plumes System Performance and Ecological Impact Monitoring (SPEIM) Program in September 2012. These data were presented to the regulatory agencies during the 28 November 2012 Technical Update meeting. The handout for the presentation, including text slides, one figure, and one table is included as Attachment A.
2.0	**BACKGROUND** The Southwest Plumes include the following groundwater plumes: Chemical Spill-4 (CS-4), CS-20, CS-21, and Fuel Spill-29 (FS-29). The contaminants of concern (COCs) for the Southwest Plumes are as follows: • CS-4: trichloroethene (TCE), tetrachloroethene (PCE), 1,1,2,2-tetrachloroethane (1,1,2,2-TeCA), and ethylene dibromide (EDB) • CS-20: PCE • CS-21: TCE • FS-29: EDB and carbon tetrachloride (CCl_4) The Southwest Plumes remedial system was designed to collectively remediate the CS-4, CS-20, CS-21, and FS-29 groundwater plumes. The contaminated groundwater is captured by extraction wells in each plume, treated in a centrally-located treatment plant (the Hunter Avenue Treatment Facility [HATF]), and the treated water is returned to the aquifer through reinjection wells, an infiltration trench, and an infiltration gallery. The flow rate (2012 Scenario 01) for the Southwest Plumes remedial system is 1,619 gallons per minute (gpm). The combined flow from the CS-4 and CS-20 extraction wells (919 gpm) enters the HATF through a common influent line, and is treated through dedicated carbon trains. The flow from the CS-21 extraction wells (700 gpm) enters the HATF through a separate influent line and is treated through a separate carbon train from CS-4/CS-20.

Distribution: AFCEC: Rose Forbes, Jon Davis, Admin. Record, EPA: Bob Lim, MassDEP: Len Pinaud, Elliott Jacobs, CH2M HILL: Nigel Tindall, Doc. Control

ITEM	REMARKS
	The treated water from the CS-4/CS-20 train and the CS-21 train exits the HATF in a combined effluent line and is returned to the aquifer through six reinjection wells, an infiltration gallery, and an infiltration trench. Phase I of the HATF startup consisted of the CS-4 and CS-20 remedial system components being brought online in December 2005. Phase II of system startup was completed in September 2006 when the CS-21 and FS-29 remedial system components began operation. Active treatment at FS-29 ceased with the last operational FS-29 extraction well (80EW0001) being shutdown on 20 September 2010. When operational, extracted groundwater from the FS-29 system was combined with CS-21 groundwater for treatment. The FS-29 plume is now in transition to long term monitoring. Analytical data for the Southwest Plumes have been collected through the SPEIM program since Phase I of startup of the treatment system in 2005. This program was developed to monitor plume changes and to ensure the effective operation of the groundwater remediation systems; monitoring networks are also evaluated and optimized through the SPEIM program. The current approved Southwest Plumes SPEIM monitoring network, including analytical scope and methods, is presented in the *Comprehensive Long Term Monitoring Plan (CLTMP)*, which is available from the Air Force Civil Engineer Center (AFCEC). Note that all the analytical data collected in 2012 will be included in the *Southwest Plumes 2012 Summary Letter Report*, which is scheduled for submittal in March 2013.
3.0	**SUMMARY OF RESULTS** Analytical results were presented for selected monitoring wells in the CS-20, CS-21, and FS-29 plumes. There are no results for CS-4 because there are no CS-4 monitoring wells sampled on a semiannual basis. A summary of the main findings is as follows: • Five monitoring wells (81MW0013A/B, 81MW0018B, and 81MW0019A/C) are currently sampled on a semiannual basis at the leading edge of the CS-20 plume to monitor PCE concentrations in the uncaptured portion of the plume (Figure 1 of Attachment A). PCE concentrations decreased in samples collected at all monitoring wells except 81MW0019C, which had a PCE detection increase from nondetect (March 2012) to a detection below the reporting limit (BRL) (Table 1 of Attachment A). • Three monitoring well screens (80MW0015A,B,C) located adjacent to FS-29 extraction well 80EW0002 (shut down in December 2009) and three monitoring well screens (80MW0006A/B, 69MW1542) located adjacent to FS-29 extraction well 80EW0001 (shut down in September 2010) are currently sampled on a semiannual basis as sentry wells. During the reporting period, EDB was not detected in any of those monitoring wells, and all CCl_4 detections were below the Maximum Contaminant Level (MCL) of 5 micrograms per liter (µg/L) (Table 1 of Attachment A).

ITEM	REMARKS
	• Two monitoring well screens (82MW0021A,B) located adjacent to CS-21 extraction well 82EW0004 (shut down June 2010) are currently sampled on a semiannual basis as sentry wells. TCE concentrations were below the MCL of 5 µg/L in samples collected from both sentry wells.
4.0	**CONCLUSION** The long term concentration trends for the ten semiannual Southwest Plumes monitoring wells are consistent with the Conceptual Site Model for the plumes.
5.0	**RECOMMENDATIONS** AFCEC will continue with all planned SPEIM activities for the upcoming year, which include the following: • An annual sampling event (March 2013); • Routine monthly and quarterly treatment plant and extraction well sampling; and • A data presentation at a summer 2013 Technical Update meeting presenting results from the aforementioned data collection activities.
6.0	**REGULATOR COMMENTS/ACTION ITEMS** No comments were received from the regulatory agencies at the 28 November 2012 Technical Update meeting.

Attachment:
Attachment A: Southwest Plumes Semiannual SPEIM Data Presentation, 28 November 2012 Technical Update Meeting

ATTACHMENT A

Southwest Plumes Semiannual SPEIM Data Presentation, 28 November 2012 Technical Update Meeting

Southwest Plumes 2012 Semiannual SPEIM Data Presentation
28 November 2012 Technical Update Meeting

Scope

- September 2012 Semiannual Groundwater Sampling Results (Figure 1) for:
 - 5 CS-20 monitoring wells sampled for VOCs
 - 6 FS-29 monitoring wells sampled for EDB; 2 sampled for VOCs
 - 2 CS-21 monitoring wells sampled for VOCs

Results

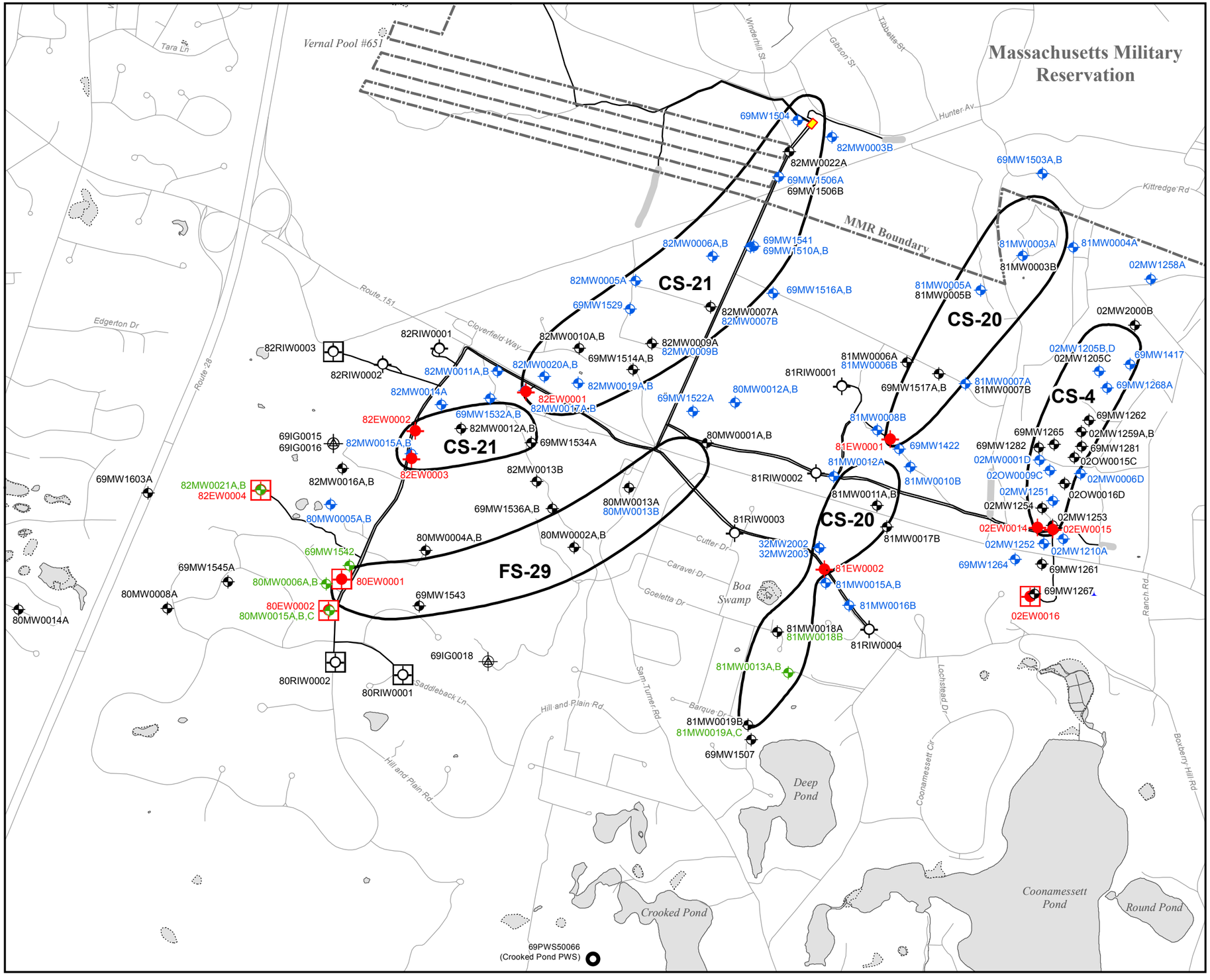
- CS-20 leading edge PCE concentrations declining
- FS-29 sentry wells ND for EDB; max CCl_4 detection = 4.6 μg/L
- CS-21 sentry well TCE detections below MCL or ND

Southwest Plumes 2012 Semiannual SPEIM Data Presentation
28 November 2012 Technical Update Meeting

Plans and Recommendations

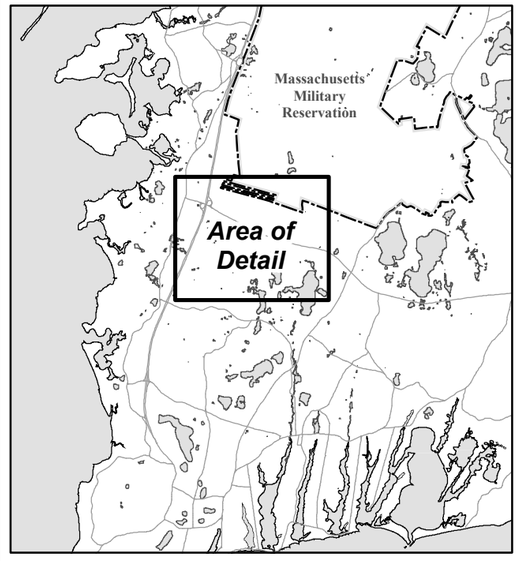
- New plume boundary/LUC boundary presented in Annual Data Presentation at 28 September Technical Update meeting.
- Implement proposed monitoring network (from Annual Data Presentation) during next annual monitoring event in March 2013.
- Present those sample results at a summer 2013 Technical Update meeting.

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Legend

- Extraction Well (On)
- Extraction Well (Off)
- Triennnial Monitoring Well
- Annual Monitoring Well
- Semiannual Monitoring Well
- Public Water Supply Well
- Reinjection Well (On)
- Reinjection Well (Off)
- Irrigation Well
- Treatment Plant
- Pipeline
- Infiltration Trench
- Massachusetts Military Reservation Boundary
- 2010 Southwest Plume Boundary



0 680 1,360 Feet

Data Source: AFCEC, August 2012, MMR-AFCEC Data Warehouse
MMR Boundary from Massachusetts Air National Guard 2011

FIGURE 1

SOUTHWEST PLUMES SPEIM CHEMICAL NETWORK

AFCEC - Massachusetts Military Reservation

28 November 2012 Technical Update Meeting

CH2MHILL

Table 1
Historic Southwest Plumes Groundwater Monitoring Results
28 November 2012 Technical Update Meeting

Location	Date	Laboratory Analyses			
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
CS-20 Historic Monitoring Results					
81MW0013A	8/1/2001	1	--	--	--
81MW0013A	6/14/2002	BRL	--	--	--
81MW0013A	7/15/2005	3.7	--	--	--
81MW0013A	8/23/2005	2.9	--	--	--
81MW0013A	7/5/2006	3.3			
81MW0013A	7/3/2007	4			
81MW0013A	7/8/2008	3.8			
81MW0013A	3/5/2009	2.5			
81MW0013A	3/23/2010	**19**			
81MW0013A	8/26/2010	**16**			
81MW0013A	3/2/2011	**17**			
81MW0013A	9/22/2011	**15**			
81MW0013A	3/1/2012	**11**			
81MW0013A	9/6/2012	**9**			
81MW0013B	8/1/2001	BRL	--	--	--
81MW0013B	6/18/2002	BRL			
81MW0013B	10/6/2003	BRL			
81MW0013B	9/20/2004	BRL			
81MW0013B	7/15/2005	BRL			
81MW0013B	8/23/2005	0.99			
81MW0013B	7/5/2006	4.5			
81MW0013B	7/3/2007	**15.2**			
81MW0013B	7/8/2008	**11.6**	--	--	--
81MW0013B	3/5/2009	**6.5**	--	--	--
81MW0013B	3/23/2010	**8.5**	--	--	--
81MW0013B	3/2/2011	**24**	--	--	--
81MW0013B	9/22/2011	**31**	--	--	--
81MW0013B	3/1/2012	**23**	--	--	--
81MW0013B	9/6/2012	**20**			
81MW0018B	08/03/06	0.81	--	--	--
81MW0018B	07/03/07	0.68	--	--	--
81MW0018B	07/07/08	**7.3**	--	--	--
81MW0018B	03/05/09	**16.3**	--	--	--
81MW0018B	03/23/10	**29**	--	--	--
81MW0018B	08/26/10	**8.9**	--	--	--
81MW0018B	03/02/11	**8.7**	--	--	--
81MW0018B	09/22/11	2.6	--	--	--
81MW0018B	03/01/12	2.3	--	--	--
81MW0018B	09/06/12	BRL			
81MW0019A	3/4/2009	ND	--	--	--
81MW0019A	3/23/2010	ND	--	--	--
81MW0019A	3/2/2011	ND	--	--	--
81MW0019A	9/22/2011	ND	--	--	--
81MW0019A	3/1/2012	ND	--	--	--
81MW0019A	9/6/2012	ND			
81MW0019C	3/4/2009	0.46	--	--	--
81MW0019C	3/23/2010	**9**	--	--	--
81MW0019C	8/26/2010	0.9	--	--	--
81MW0019C	3/2/2011	ND	--	--	--
81MW0019C	9/22/2011	ND	--	--	--
81MW0019C	3/1/2012	ND	--	--	--
81MW0019C	9/6/2012	BRL			
CS-21 Historic Monitoring Results					
82MW0021A	06/21/06	--	ND	--	--
82MW0021A	04/30/09	--	**7.1**	--	--
82MW0021A	03/25/10	--	2.7	--	--

Table 1
Historic Southwest Plumes Groundwater Monitoring Results
28 November 2012 Technical Update Meeting

Location	Date	Laboratory Analyses			
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
82MW0021A	08/26/10	--	2.3	--	--
82MW0021A	04/01/11	--	4.6	--	--
82MW0021A	09/07/11	--	2.6	--	--
82MW0021A	04/20/12	--	3	--	--
82MW0021A	09/06/12	--	3.6	--	--
82MW0021B	06/21/06	--	ND	--	--
82MW0021B	04/30/09	--	ND	--	--
82MW0021B	03/25/10	--	ND	--	--
82MW0021B	08/26/10	--	ND	--	--
82MW0021B	04/01/11	--	ND	--	--
82MW0021B	09/22/11	--	ND	--	--
82MW0021B	04/20/12	--	ND	--	--
82MW0021B	09/06/12	--	ND	--	--
FS-29 Historic Monitoring Results					
69MW1542	02/04/02	--	--	**0.026**	**9.42**
69MW1542	06/04/02	--	--	**0.025**	**5.87**
69MW1542	10/02/02	--	--	**0.024**	**5.71**
69MW1542	02/03/03	--	--	0.02	**7.34**
69MW1542	06/11/03	--	--	**0.024**	**6.74**
69MW1542	06/13/06	--	--	BRL	**5.1**
69MW1542	04/29/09	--	--	BRL	BRL
69MW1542	04/01/11	--	--	0.014	1.9
69MW1542	09/07/11	--	--	BRL	1.3
69MW1542	03/06/12	--	--	ND	1.4
69MW1542	09/06/12			ND	1.2
80MW0006A	02/04/02	--	--	**0.023**	NS
80MW0006A	06/04/02	--	--	**0.026**	NS
80MW0006A	10/03/02	--	--	**0.024**	NS
80MW0006A	02/25/03	--	--	**0.027**	NS
80MW0006A	06/17/03	--	--	**0.032**	NS
80MW0006A	06/13/06	--	--	**0.03**	NS
80MW0006A	05/13/09	--	--	BRL	NS
80MW0006A	04/01/11	--	--	ND	NS
80MW0006A	09/22/11	--	--	ND	NS
80MW0006A	03/06/12	--	--	ND	NS
80MW0006A	09/06/12			ND	NS
80MW0006B	06/06/02	--	--	ND	ND
80MW0006B	06/17/03	--	--	ND	ND
80MW0006B	06/13/06	--	--	ND	NS
80MW0006B	04/29/09	--	--	ND	NS
80MW0006B	04/01/11	--	--	ND	NS
80MW0006B	09/07/11	--	--	ND	NS
80MW0006B	03/06/12	--	--	ND	NS
80MW0006B	09/06/12			ND	NS
80MW0015A	05/13/09	--	--	ND	3.8
80MW0015A	08/05/09	--	--	ND	3.1
80MW0015A	03/05/10	--	--	ND	4.2
80MW0015A	08/26/10	--	--	ND	**5.3**
80MW0015A	09/23/10	--	--	ND	4.5
80MW0015A	04/01/11	--	--	ND	**6.4**
80MW0015A	05/11/11	--	--	NS	**5.5**
80MW0015A	09/07/11	--	--	ND	**5.2**
80MW0015A	03/06/12	--	--	ND	5
80MW0015A	09/21/12			ND	4.6
80MW0015B	05/13/09	--	--	0.015	1.7
80MW0015B	08/05/09	--	--	0.011	BRL
80MW0015B	03/05/10	--	--	0.012	1

Table 1
Historic Southwest Plumes Groundwater Monitoring Results
28 November 2012 Technical Update Meeting

Location	Date	Laboratory Analyses			
		PCE (µg/L) MCL = 5	TCE (µg/L) MCL = 5	EDB (µg/L) MMCL = 0.02	CCl_4 (µg/L) MCL = 5
80MW0015B	08/26/10	--	--	**0.024**	BRL
80MW0015B	09/23/10	--	--	0.013	BRL
80MW0015B	04/01/11	--	--	ND	**5.8**
80MW0015B	05/11/11	--	--	NS	4.7
80MW0015B	09/07/11	--	--	BRL	4.7
80MW0015B	03/06/12	--	--	ND	4.4
80MW0015B	09/06/12			ND	4.2
80MW0015C	05/13/09	--	--	ND	ND
80MW0015C	08/05/09	--	--	ND	ND
80MW0015C	03/05/10	--	--	ND	NS
80MW0015C	08/26/10	--	--	ND	NS
80MW0015C	04/01/11	--	--	ND	NS
80MW0015C	09/07/11	--	--	ND	NS
80MW0015C	03/06/12	--	--	ND	NS
80MW0015C	09/06/12			ND	NS

Data Source: AFCEE, October 2012, MMR-AFCEE Data Warehouse.

Notes:
-- only plume COCs are presented
BOLD values indicate an MCL or MMCL exceedance.

Key:

BRL = below the reporting limit
COC = contaminant of concern
CS = Chemical Spill
EDB = ethylene dibromide
MCL = Maximum Contaminant Level
MMCL = Massachusetts MCL
ND = not detected
NS = not sampled
PCE = tetrachloroethene
SpC = specific conductance